

# AMERICAN NURSERYMAN

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*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

NOV 16 1946

NOVEMBER 15, 1946



*Aesculus Hippocastanum*

**SEEDS** TREE—SHRUB—PERENNIAL  
FLOWER—VEGETABLE

**HERBST BROTHERS**  
92 Warren St., New York 7, N. Y.

Correspondence with seed collectors and growers invited.

Free catalog "Seeds for Nurserymen."

# ORNAMENTAL SHRUBS

All Shrubs are well grown, bushy stock. Propagated and grown at Shenandoah, well spaced, in wide rows, to insure specimen plants suitable for retail and landscape trade. See our September 16, 1946, Trade List for other Ornamentals. If you did not receive our List, please write today:

Shipments now or later, as desired.

	Per 100		Per 100		Per 100
<b>Acanthopanax Pentaphyllum</b>		<b>Lilac (Chinese), Rothomagensis</b>		<b>Forsythia Fortunei, Intermedia or Intermedia Spectabilis</b>	
18 to 24 inches.....	\$22.00	18 to 24 inches.....	\$28.00	18 to 24 inches.....	\$22.00
2 to 3 feet.....	30.00	2 to 3 feet.....	35.00	2 to 3 feet.....	30.00
3 to 4 feet.....	40.00	3 to 4 feet.....	45.00	3 to 4 feet.....	40.00
<b>Almond, Pink-flowering, own root</b>		<b>Philadelphus Coronarius</b>		<b>Honeysuckle, Bella Albida, Grandiflora Rosea, Pink Tatarian or Red Tatarian</b>	
18 to 24 inches.....	35.00	18 to 24 inches.....	22.00	12 to 18 inches.....	14.00
2 to 3 feet.....	45.00	2 to 3 feet.....	30.00	18 to 24 inches.....	20.00
3 to 4 feet.....	55.00	3 to 4 feet.....	35.00	2 to 3 feet.....	27.00
<b>Althaea, by variety</b>		<b>Philadelphus Lemoinei</b>		3 to 4 feet.....	35.00
18 to 24 inches.....	20.00	18 to 24 inches.....	25.00	<b>Hypericum Aureum</b>	
2 to 3 feet.....	28.00	2 to 3 feet.....	32.00	12 to 18 inches.....	20.00
3 to 4 feet.....	35.00	<b>Philadelphus Virginialis</b>		18 to 24 inches.....	28.00
<b>Barberry, Thunbergi</b>		18 to 24 inches.....	35.00	2 to 3 feet.....	35.00
12 to 15 inches, transplants..	15.00	2 to 3 feet.....	45.00	<b>Salix purpurea (Blue-leaved Willow)</b>	
15 to 18 inches, transplants..	20.00	<b>Rhus Canadensis</b>		12 to 15 inches.....	16.00
18 to 24 inches, transplants..	25.00	18 to 24 inches.....	25.00	15 to 18 inches.....	22.00
2 to 2½ feet, transplants.....	30.00	2 to 3 feet.....	30.00	18 to 24 inches.....	28.00
2½ to 3 feet, transplants.....	40.00	3 to 4 feet.....	35.00	<b>Spiraea Van Houtte</b>	
<b>Barberry, Red-leaved</b>		<b>Spiraea Anthony Waterer</b>		18 to 24 inches.....	16.00
12 to 15 inches, transplants..	25.00	12 to 15 inches.....	22.00	2 to 3 feet.....	22.00
15 to 18 inches, transplants..	32.00	15 to 18 inches.....	25.00	3 to 4 feet.....	30.00
18 to 24 inches, transplants..	40.00	18 to 24 inches.....	30.00	<b>Symphoricarpos Chenaulti</b>	
2 to 2½ feet, transplants.....	45.00	<b>Spiraea Arguta</b>		18 to 24 inches.....	16.00
<b>Barberry, Truehedge Columnberry</b>		18 to 24 inches.....	22.00	2 to 3 feet.....	22.00
15 to 18 inches.....	35.00	2 to 3 feet.....	30.00	3 to 3½ feet.....	27.00
18 to 24 inches.....	45.00	<b>Spiraea Billiardi</b>		<b>Symphoricarpos Racemosus</b>	
2 to 2½ feet.....	55.00	18 to 24 inches.....	20.00	18 to 24 inches.....	18.00
<b>Buddleia Charming</b>		2 to 3 feet.....	27.00	2 to 3 feet.....	25.00
Medium.....	22.00	3 to 4 feet.....	35.00	<b>Symphoricarpos Vulgaris</b>	
No. 1.....	28.00	<b>Spiraea Froebeli</b>		18 to 24 inches.....	16.00
<b>Buddleia Concord, Dubonnet or Ile de France</b>		18 to 24 inches.....	22.00	2 to 3 feet.....	22.00
Medium.....	20.00	2 to 2½ feet.....	27.00	<b>Tamarix, by variety</b>	
No. 1.....	25.00	2½ to 3 feet.....	35.00	18 to 24 inches.....	22.00
<b>Buddleia Empire Blue, Royal Red or White Bouquet</b>		<b>Spiraea Thunbergi</b>		2 to 3 feet.....	30.00
No. 1.....	35.00	18 to 24 inches.....	22.00	3 to 4 feet.....	40.00
<b>Lilac, Common Purple</b>		2 to 2½ feet.....	30.00	<b>Viburnum Opulus</b>	
18 to 24 inches.....	25.00	<b>Cornus Alba Sibirica, Golden-twig, Racemosa or Stolonifera</b>		18 to 24 inches.....	28.00
2 to 3 feet.....	30.00	18 to 24 inches.....	22.00	2 to 3 feet.....	35.00
<b>Lilac, Common White</b>		2 to 3 feet.....	30.00	3 to 4 feet.....	45.00
18 to 24 inches.....	28.00	3 to 4 feet.....	40.00	<b>Viburnum Opulus Sterile</b>	
2 to 3 feet.....	35.00	<b>Cotoneaster Acutifolia</b>		18 to 24 inches.....	35.00
		18 to 24 inches.....	28.00	2 to 3 feet.....	45.00
		2 to 3 feet.....	35.00	<b>Viburnum Dentatum, Lantana, Lentago or Molle</b>	
		3 to 4 feet.....	45.00	18 to 24 inches.....	22.00
		<b>Cydonia Japonica</b>		2 to 3 feet.....	30.00
		18 to 24 inches.....	20.00	3 to 4 feet.....	40.00
		2 to 3 feet.....	25.00	<b>Weigela Eva Rathke</b>	
		3 to 4 feet.....	30.00	18 to 24 inches.....	35.00
		<b>Deutzia Pride of Rochester</b>		2 to 3 feet.....	45.00
		18 to 24 inches.....	22.00	<b>Weigela Rosea</b>	
		2 to 3 feet.....	30.00	18 to 24 inches.....	22.00
		3 to 4 feet.....	35.00	2 to 3 feet.....	30.00



"One of America's Foremost Nurseries"

E.S. Welch PRES.

**MOUNT ARBOR NURSERIES**  
**SHENANDOAH, IOWA**







# AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

VOL. LXXXIV, No. 10

NOVEMBER 15, 1946

Founded 1904  
With which was merged 1939  
THE NATIONAL NURSERYMAN  
Established 1893

\* \* \* \* \*

Published on the  
first and fifteenth  
of each month by the  
AMERICAN NURSERYMAN  
PUBLISHING COMPANY  
343 South Dearborn Street,  
Chicago 4, Illinois.  
Telephone: Wabash 8194

\* \* \* \* \*

Subscription Price:  
\$2.00 per year; outside  
United States, \$2.50;  
Single Copies, 10c.

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Advertising Rates  
on application.  
Forms close ten days  
before date of issue.

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Entered as second-class matter  
December 14, 1933, at Chicago,  
Ill., under act of March 3, 1879.

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**CLOSING DATE**—Present printing conditions require that more time be given for putting current issues of the American Nurseryman through the press. So if you send material for either the advertising or the news columns of the **December 1** issue, please mail in time to reach this office by **November 19**.

UNION PACIFIC RAILROAD SERVES SUN VALLEY

Re-opens  
December 21<sup>st</sup>



# Sun Valley • Idaho



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FUN AFTER 4 YEARS  
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For experienced and intermediate skiers— a variety of fast open and partially timbered ski-runs. For beginners especially—but available to all—instructions by a selected staff of experts headed by Friedl Pfeifer. Special skiing events have been scheduled for the winter season.

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Other activities include skating, sleighing, and swimming in warm-water outdoor pools. And in evening hours—music and dancing.

Accommodations at a wide price range. For protection of guests, reservations must be confirmed in advance. Write or wire—

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W I N T E R   S P O R T S   U N D E R   A   ' S U M M E R   S U N '

# AMERICAN NURSERYMAN

F. R. KILNER, Editor

## Editorial

### PREDICTIONS VARY.

Recent developments in the business world, such as the stock market slump, the sudden drop in the cotton market and the gyrations in prices of some commodities, have caused the professional business prognosticators to be featured in the public prints with forecasts ranging all the way from a boom to a depression within the next year or two. Difference in predictions occurs among top government advisers at the nation's capital, among economists and among businessmen. Each is entitled to his own opinion, and what matters is how much credence the rest of us give to the various views.

In view of the disruptions caused by the actions of the OPA in recent months, the influence of strikes and wage settlements, and the changes necessary in the business world to reflect the altered circumstances of supply and demand under postwar conditions, it would be surprising if dislocations were not encountered.

Such dislocations vary in extent according to the participation of each industry in war industry and the necessity for reconversion. It varies also with the extent that the war affected supply and demand in a given field. Hence the widely varying predictions, depending upon the section of the business field the prognosticator views most closely.

Unquestionably the honeymoon is over in those fields where high wartime wages brought buying at luxury prices. The public is regaining common sense in its expenditures. Shoddy merchandise no longer is accepted as a substitute, and fancy prices are no longer paid for items just because they are scarce. The public is willing to wait for prices to come down and for the supply to adjust itself to the demand.

Any fair-minded businessman is willing to see these adjustments. He is ready to accept the temporary fluctuations that cause prices and supply to seek their normal levels in a free industrial and commercial setup. The country is rapidly returning to that kind of situation, as the OPA decontrols large groups of items pretty nearly every day.

Inasmuch as nursery stock, with the exception of a few items, climbed to no disproportionate figures during the war, there is the less likelihood

of a recession from those higher prices made necessary by higher costs of labor and materials. During the war the shortage of labor prevented nurserymen from making all the sales they could have booked, and hence they did not enjoy the hectic market that some other fields did. Consequently there is a pent-up demand, which remains to be filled, and the greater part of it remains dependent upon the available labor supply.

As stated here previously, those who thought that prices and markets would keep on going up have had to revise their notions. That applies to merchants, labor unions, stock mar-

this year, approximately \$20,000,000,000 more than can be spent on all the consumer goods it will be possible to manufacture, the Treasury Department recommends that these excess earnings be laid aside in savings until they are needed by both consumer and producer. Furthermore, it is believed that the long-term objectives of the United States savings bonds program are as valid today as they were during the war. Through such savings, the public debt can be kept in the hands of the people, the wartime thrift habit can be maintained and the individual citizen can achieve personal security.

### TRAIN GI'S FOR FARMS.

Agriculture and related fields attracted 4.85 per cent of all veterans enrolled in educational institutions, and 1.33 per cent of those taking on-the-job training under the GI bill, according to a Veterans' Administration survey of former GI's in education and training at the end of the first half of 1946.

Of the 930,512 veterans in schools and on-the-job on June 30, 29,690 were enrolled in agricultural schools and colleges, and 5,055 were taking job training on farms.

By September 30, the total number of veterans taking education and training under the GI bill rose to 1,265,155. A breakdown of this figure into courses or fields of training is not available at this time.

### BETTER LUMBER SUPPLY.

Although supplies of lumber are not yet everywhere adequate, the lumber shortage is reported to be rapidly vanishing. Current production is at the rate of thirty-three billion board feet per annum, compared with the output of twenty-one billion board feet in the prewar year of 1938. Distribution is spotty because of the freight car shortage and the maritime workers' strike, but supply and demand are said to be approaching a balance. In fact, a change from a sellers' to a buyers' market is predicted as a possibility within a matter of months.

EDWARD I. FARRINGTON, secretary for a number of years of the Massachusetts Horticultural Society, Boston, Mass., and editor of *Horticulture* magazine, has resigned his position, effective January 1.



ket operators and any others which the description fits. From that point of view a recession may seem in prospect, and probably is. But for the businessman who has kept his feet on the ground, sticking to normal operations and trying to get back to a prewar relationship with his customers, there seems every reason to believe that good business will last for a considerable time, for nursery stock as well as for automobiles and other items for which the public has been waiting until the postwar readjustment was completed.

### SAVING FOR SECURITY.

The Minute Man, familiar symbol of defense and wartime savings bonds, has shifted his plowshare to the foreground to become the new insignia of peacetime savings through the purchase of bonds and stamps. As illustrated on this page, the gun which held the dominant position on the former symbol has been relegated to the background, and the emphasis is now on peacetime aspects of the campaign to encourage savings.

Based on the fact that Americans will earn more than \$160,000,000,000



# Profit from Soil Conservation

By E. B. Getze

Forward-looking nurserymen, like modern farmers, are finding that soil and water conservation pay. Nursery stock must have a rapid development to prevent overhead from eating up profits. Good soil and adequate water help speed up plant growth and bring about well rounded development. On the other hand, too much water, in the form of surplus rainfall, washes away topsoil and commercial fertilizer which cannot be spared, and may even undercut plants, particularly at the ends of rows. Farmers have found that soil conservation measures not only protect their fields and make them permanently productive; they have found that these conservation practices increase per acre crop yields an average of twenty per cent. Some nursery firms, too, have obtained striking results from soil and water conservation.

One of these is the Jackson & Perkins Co., Newark, N. Y., which also operates as the Perkins-deWilde Co., at Shiloh, N. J. At the Perkins-deWilde branch conservation has been spreading across the nursery's 500 acres since 1941. From a modest beginning of one quarter of an acre, when a planting of yew was put on the contour five years ago, various conservation practices are now to be found on 300 acres. Roland deWilde, manager of the New Jersey nursery, is looking forward to the day when all 500 acres will be protected and benefited by contour planting, diversion terraces and other conservation measures. When that day comes, he believes that plant losses will be cut ninety per cent, compared to the losses before any conservation work was begun. Since these losses once averaged as much as \$5,000 a year, conservation is paying big dividends in this saving alone.

Mr. deWilde recalls that back in 1921, when the New Jersey nursery was started, trouble was experienced right from the beginning. Topsoil and commercial fertilizer flowed off the land with every rainstorm. Plant development was slowed up, and from nearly every row end three or four plants were hopelessly stunted or completely lost, undercut by erosion. Soil loss through erosion was a serious matter at the nursery, because so much good soil was also removed each year in the balls of soil around each plant sold. A hundred thousand plants a year, most of them sold B&B,

can carry away a good many tons of fertile topsoil. That loss could not be prevented, but loss by erosion could, Mr. deWilde believed. He tried some homemade conservation measures, such as planting straight buffer strips of grass to check the flow of rain water downhill. He tried one-way plowing. Then he asked the United States Department of Agriculture for advice and began to use contour planting and other true soil and water conservation measures.

That little quarter-acre plot of taxus planted on the contour in 1941 looked good right from the start. Within a year the deWildes set out twenty acres of shrubs and other plants on the contour. From then on, they spread out, not only with contouring, but with the building of diversion terraces. The contour furrows, each one level throughout its length, acted as miniature dams which checked the downward flow of water, giving it a chance to soak into the ground. When rainfall was so heavy that even contouring could not handle the surplus water, diversion terraces took over the job. Broad, rounded channels of permanent sod, with a sod dike below and a grass filter strip above, the terraces caught the flowing water and carried it slowly and safely to a suitable outlet. The terraces have proved their worth in another way, too. They not only prevent erosion, but they prevent flooding. Diversions are first aid for drowning plants as well as for slipping soil.

All of the conservation work done at the Perkins-deWilde nursery, after

the first homemade attempts, has been done with the cooperation of the South Jersey Soil Conservation District. One of over 1,700 similar districts organized so far by local farmers under state laws in every state in the country, the south Jersey district came into existence in 1939. District technicians, furnished by the United States Soil Conservation Service, prepared a complete conservation plan for the nursery and have followed up with technical assistance and advice as it has been needed, from time to time, ever since. Assistance with preparation and carrying out of a complete conservation plan is a service which soil conservation districts regularly render to every farmer or nurseryman within their boundaries who requests this assistance and who is willing to cooperate with the district in adopting good land-use and soil and water conservation practices. Another phase of conservation district activities includes the development of a general program and plan of conservation action for the district as a whole, based on a study of its needs. Districts conduct educational programs, and they enlist the services of many agencies, local, state and federal, in preparing and carrying out both district programs and complete conservation plans on individual farms, ranches, nurseries and the like.

In Ontario county, New York, another soil conservation district has been helping the Jackson & Perkins Co., at Newark, N. Y., which has been cooperating with the Ontario



Yews on Contour Develop Rapidly Because Soil, Fertility and Moisture Are Conserved.

Soil Conservation District for the past three years. The success of the Perkins-deWilde nursery in growing other shrubs and trees on the contour gave the Newark nursery the idea of growing roses on the contour. Today about sixty acres of roses are contour planted at Newark.

In addition to contour planting, soil and fertility are conserved at the Newark nursery by a minimum of plowing and a maximum of soil building. This is done by seeding the land to a grass-legume mixture the year following a rose harvest. Another phase of soil conservation has been the use of drainage to make fertile but wet land usable and highly productive.

Like Mr. deWilde, Charles H. Perkins, president of the Jackson & Perkins Co., is anxious to put soil and water conservation practices into effect on all the company's land. He says it is obvious that good-quality nursery stock can come only from soil well supplied with fertility, organic matter and moisture. And he echoes the sentiments of Mr. deWilde, who believes every nurseryman in the country would profit from conservation applied to his nursery.

#### TRUCK MANAGEMENT PLAN.

A detailed system, designed to enable all users of motor trucks to increase their transportation efficiency, has been developed by the White Motor Co., Cleveland, O., through a nation-wide study of all major truck-using industries during the past six years.

Termed the continuing control system of truck management, the plan is based on the control of three factors which the study of thousands of trucks in large and small fleets



Planting Azaleas on the Contour at Nursery in New Jersey.

throughout the country showed are basic to the efficient use of trucks. These basic factors are: Correct application of the truck to the work it is to do; improved maintenance designed for each vehicle, and better selection and training of drivers.

In working out the plan, the motor company has prepared complete instructions and the material for putting the system into effect. These are being made available through various industry sources and apply to all makes of trucks in all types of service. Among benefits provided by the system are lower cost per mile, greater dependability, longer truck life, lower maintenance cost, reduced accident rate and lowered driver turnover.

In commenting on the plan, J. N. Bauman, vice-president of the White

Motor Co., said: "We believe that the system is particularly timely now, because perhaps never again will so many truck owners be in more logical position, with respect to worn-out equipment on hand, to make a thorough reappraisal of their transportation requirements in the light of their exact needs and take full advantage of the bettered service and lowered costs which properly applied trucks, correctly maintained and driven, can provide."

#### COLORADO QUARANTINE.

The Colorado counties of Delta, Garfield, Mesa, Montezuma and Montrose have been placed under state quarantine for peach mosaic virus disease, and the movement of certain symptomless varieties of peach into or within the protected area has been prohibited, effective October 15. The following varieties of peach have been restricted: Rochester, Carman, Orange Cling, Red Bird Cling (Early Wheeler), Champion, Belle of Georgia, Alton Cling, Seedling, Victor, Dewey, Guinn, Greensboro, Crawford and Alexander. All other fruit trees must bear tags stating the known variety of the nursery stock, the point of origin and the shipper's name and address.

MEMBERS of the Connecticut Association of Nurserymen have received the first issue of a bulletin which is to appear periodically, containing information on matters concerning the association and the nursery trade. Tom Faulkner, member of the executive committee, edited the bulletin.



Planting in Straight Rows, Even on Slight Slopes, Invites Gullying and Loss of Topsoil.

# Better Varieties of Dwarf Conifers

By Gustaf E. Malmberg

As landscape gardener of the Masonic home's 1400-acre grounds at Elizabethtown, Pa., I have under my care 650 acres in forests and landscaped areas. We have thirty-six acres of lawn and about an equal area to mow with a scythe, or with power equipment where it is possible to use it. I could give a description of our place and our activities, but that would take us too far from the subject of this article, dwarf conifers and some interesting deciduous shrubs.

I have felt for some years that the dwarf varieties of conifers were much less used than they deserved to be, and whenever I have an opportunity I make myself spokesman for the use of dwarf-growing evergreens in foundation plantings and large rock gardens, and as lawn specimens. Can you think of anything finer for these purposes than a well grown Sargent weeping hemlock or the dwarf, compact *Chamaecyparis obtusa nana*?

At the present time we have such a wealth of dwarf material that there can be no excuse for using such plants as plume cypress or, even worse, Norway spruce in foundation plantings. Just the same, such things are being done. A dwarf plant does take longer to grow to salable size than, for instance, an arborvitae or cypress, and when the latter are young they may, to the layman, look just as good as the higher-priced dwarf spruce or dwarf hemlock, but the years to come will tell the story. The arborvitae and cypress will soon hit the eaves of the house, and you will hardly be able to go in through the main entrance because of the two big Norway spruces that looked so fine a few years ago.

A species that has many dwarf forms is *Tsuga canadensis*, the common Canada hemlock, but as yet most of them are little known. That is unfortunate, because there is a hemlock for almost every situation.

Of all the slow-growing hemlocks I value the Sargent weeping hemlock the highest. This tree is a rather fast-growing one to be classed with the dwarf forms. I have seen this tree almost fifteen feet wide and five feet high, the finest specimen you could hope for. Unfortunately, it did not have room enough to develop further; so the owner had to trim it, and that spoiled its shape. Usually this hemlock does not need any trimming whatsoever, and my experience is that the less you tie it up the better plant you will eventually get. It shapes up fine

itself, if you let nature take its course. I have used the Sargent hemlock in foundation plantings, as a bold corner planting and at heavy masonry pillars on porches. You have only to remember that this tree needs room and that it would be a sin to crowd it in too small a space.

The next best of the dwarf hemlocks, in my estimation, is *Tsuga canadensis macrophylla*. This is upright, growing more or less in a broad, pyramidal shape that is artistically irregular. It has the broadest needles of all the hemlocks and is often mistaken for a yew at a quick inspection. The needles are thickset on the branches, and the whole plant looks heavy and massive. This is a hemlock that deserves much more attention from nurserymen and a plant that sells itself without any trouble. While the foliage is young it has a two-toned effect, which is very attractive, the tip of the branches being of a lighter green. After the foliage gets ripe it is dark green.

*Tsuga canadensis fremdi* is another

good one. It is of more pyramidal growth, with pendulous tips to the branches and wide needles. These needles are, however, narrower and blunter than those of the *macrophylla* form. *T. canadensis fremdi* is a valuable variety, but if you have *macrophylla* you do not need it. For my choice I should select the former, but that is only a matter of taste.

An old variety that has been on the market a long while is *T. canadensis atrovirens*. It is not so good as the two I have just mentioned, but in case you cannot get the former, *atrovirens* can take their place in any high-class planting. *T. canadensis atrovirens* grows rather tall in time and does not belong with the really dwarf hemlocks.

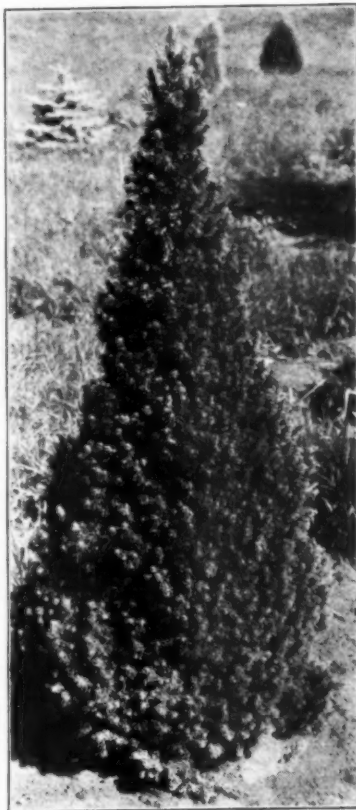
One variety I have under the name of *T. canadensis compacta* looks too much like the *macrophylla* form to warrant any further mention here.

There is another variety that I think I should mention, *T. canadensis globosa*. As the name indicates, it is a distinctly globe-shaped plant. The color is greenish-yellow when the new growth is out, but it darkens as the foliage ripens. The yearly growth on this hemlock is only two to two and one-half inches, indicating that it is a real dwarf.

The variety *T. canadensis minima* is a vase-shaped plant with drooping branches. It resembles *T. canadensis sargentii* to a certain degree, but the limbs are not so pendulous. This form is graceful and beautiful and, I think, one of the better ones.

There are a number of other dwarf hemlocks on the market, but I have mentioned only the ones with which I am familiar. We have today scores of varieties of the Canada hemlock, both dwarf and fast-growing. Abbott in Vermont, Gable at Stewartstown, Pa., and Henry Hohman at Kingsville, Md., all have their own varieties. There are also the Dawson hemlock from Holliston, Mass.; the Bennett spreading hemlock from Eatontown, N. J., a globe-shaped one from Stoughton, Mass., called the Laurie hemlock, and several more.

The dwarf variety of the white pine, *Pinus strobus nana*, is exceptionally small. Our plant 15 years old is about four feet across and thirty inches high, and it is a beauty. It grows slowly, the yearly growth being only three to four inches. The shape is slightly irregular, but that only adds to its grace, in my opinion. For a



*Picea Glauca Conica.*



specimen plant on a small place this variety is ideal, but of course you would have to have quite a different price for a plant of this kind than for a globe arborvitae. An arborvitae you can produce in four years, but a dwarf white pine might take ten. I think, just the same, it would pay to have some of these dwarf plants in stock in limited quantity for your better clients.

*P. sylvestris watereri*, the dwarf form of Scotch pine, is one I should not like to be without. It is a striking evergreen, and if you have only one or two in your nursery they will draw the most comments. This pine is broad, pyramidal and steel-blue, with a very compact growth. It is a fine plant for use as a lawn specimen, for a small place where the space is limited or for a larger rock garden.

We also have a few dwarf varieties of the Japanese red pine, *P. densiflora globosa* and *P. densiflora umbraculifera*. The *globosa* is a beautiful tree, but rather fast-growing to be classed with the real dwarf pines. The yearly growth is about six to seven inches. It is especially interesting when in bloom, the dull red female flowers, produced in abundance, being conspicuous at the tips of the branches. The tree starts fruiting while very young, and even the old cones which hang on the tree for two to three years are not unattractive. The *globosa* has one fault, being susceptible to a blight that may kill part of the tree. If you recognize and control it in time it is not so severe, but if you let it go it may take half of your plant. At present our tree is in perfect shape, and I hope we are able to keep it that way.

The other variety, *P. densiflora umbraculifera*, is known under the common name of Japanese umbrella pine, or Tanyosho pine. This variety is even faster-growing than the *globosa*, and trees planted in 1932 are now nine to ten feet high and six feet broad. The *globosa*, by the way, was planted in 1933 and is now ten to eleven feet wide and six feet high.

The two *densiflora* varieties look alike. The only difference is that the *globosa* is almost as broad as it is high, and as the figures told you, the *umbraculifera* is twice as high as broad. The fruiting habits are the same.

We have a few other dwarf pines, including *P. aristata*, the bristle-cone pine; *P. peuce*, the Macedonian white pine; *P. pumila*, the Japanese stone pine, and *P. austriaca globosa*.

There are approximately sixty dwarf spruces. The dwarf Alberta spruce, *Picea glauca conica*, is the most common and one of the better ones. It was found in the Canadian

Rockies by J. G. Jack, of the Arnold Arboretum, in 1904. It is a most unusual-looking tree and one you will take notice of wherever you see it. The largest of our plants are about six feet high. The growth is extremely close, strictly pyramidal in outline and light green of color. This spruce grows only about one inch a year; so it takes quite a while to grow a tree in the nursery. By the way, you can demand a good price for a specimen tree of this variety, if you get the right customer. There is, however, a serious drawback with this spruce, and that is the danger of red spiders. They may ruin your plant in a single summer if you do not get them checked in time. If you can handle oil spray in your climate, it may prove effective. I use one per cent Sunoco oil spray in July after the growth is ripe, and the control is 100 per cent effective.

Another variety of the white spruce that is not so common as *Picea glauca*



Bob Fowler and Judge Silva.

*conica* is *P. glauca nana*. This is a really dwarf one, too, but it is globe-shaped and not so pyramidal as the former. The color is steel-blue, as can be expected of a variety of *P. glauca*. It is a true gem and one that is worth carrying in stock.

A tree that is unlike anything else you ever saw is *P. nigra doumeti*. The new growth is narrow and thin, almost lacelike, and that gives the whole plant an odd but graceful appearance. It does not belong to the dwarfest varieties, but plants 30 years old are ten feet high and about twelve to fourteen feet wide. As smaller plants they are really decorative and not difficult to grow. They shape up well without any trimming.

There are many dwarf forms of the Norway spruce, and the nomenclature is confused. One nursery will have one name, the next another for the same thing. The names I give are correct to the best of my knowledge. It is extremely hard to check

them, because there are no adequate descriptions available. "Standardized Plant Names" lists only the names, and in many instances that does not help much unless you know for what you are looking.

*Picea abies pumila* is one of the more common varieties. Its shape is broad and irregular; it is very dwarf and has short needles not even half an inch long. The growth is slow, not more than two inches a year; so you can see that it takes a few years to produce a plant, but when you have it, it is something of which to be proud. I have one plant I bought in an old nursery where the plants were kept in a block where the weeds grew higher than the trees. I found an old *P. abies pumila* that was originally imported from Holland. The plant was a fine one, I thought, but when it was dug I found that the stem lay on the ground for about fifteen or sixteen inches. I was away when it was planted in our arboretum, and instead of being placed in its natural-grown way, it was set up on high edge, so to speak. The ball was loose, and I did not dare take a chance at putting it right, but intended to let it grow for one season and then change it. I never did, but to—

[Continued on page 44.]

#### RECALLS OLD DAYS.

Judge Ed B. Silva, Newcastle, Cal., 92 years old, is to be seen in the photograph reproduced on this page showing Bob Fowler, of the Fowler Nurseries, Newcastle, Cal., how trees were budded in Silva's Nurseries in 1868. The judge introduced the Newcastle Early apricot, the Silva October Freestone and many other varieties.

The judge started in the nursery business with his father sometime prior to 1868; he cannot remember just when. He continued in that business and later went into partnership with the late J. E. Bergtholdt, in the Silva-Bergtholdt Corp. He later sold his interest to J. F. Dudley, who until his death was a prominent fruit grower in the Newcastle district.

Judge Silva, who was the father of the late Charles Silva, sheriff of Placer county, operated a grocery store at Newcastle until his retirement a few years ago. He works daily in a small orchard and garden at his home, where he has developed several new varieties of fruit. He has an extensive berry garden, as well as citrus trees, flowers, etc., all of which he cultivates by hand. In addition, he holds justice court daily. He was born near Newcastle in 1854.



# Insects and Diseases of Bulbous Plants

By M. B. Cummings

Bulbous plants have their quota of insects and diseases. In fact, no cultivated plant is free from or fully immune to pests and disorders. If this were not so, plant culture would be a boon and the economics of it would be entirely different, for then plant growing would be easy and simple. But as things are now, and will continue to be, the nurseryman and the gardener need to be alert and on guard for any and all insects and diseases, so that they may reduce losses to a minimum. This article draws attention to the major insects and diseases of cultivated bulbs in order to help the grower with his problems.

## Gladiolus Thrips.

Thrips are the most serious pests of gladiolus plants. They discolor the leaves, making them silvery, and distort the flowers. Their general distribution and devastating effect make them important to nurserymen and flower growers. Thrips work also on dahlias, onions and tobacco; so there are many host plants for them. They are notoriously bad actors. The mouth action is intermediate between biting and sucking. The creatures rasp the leaves.

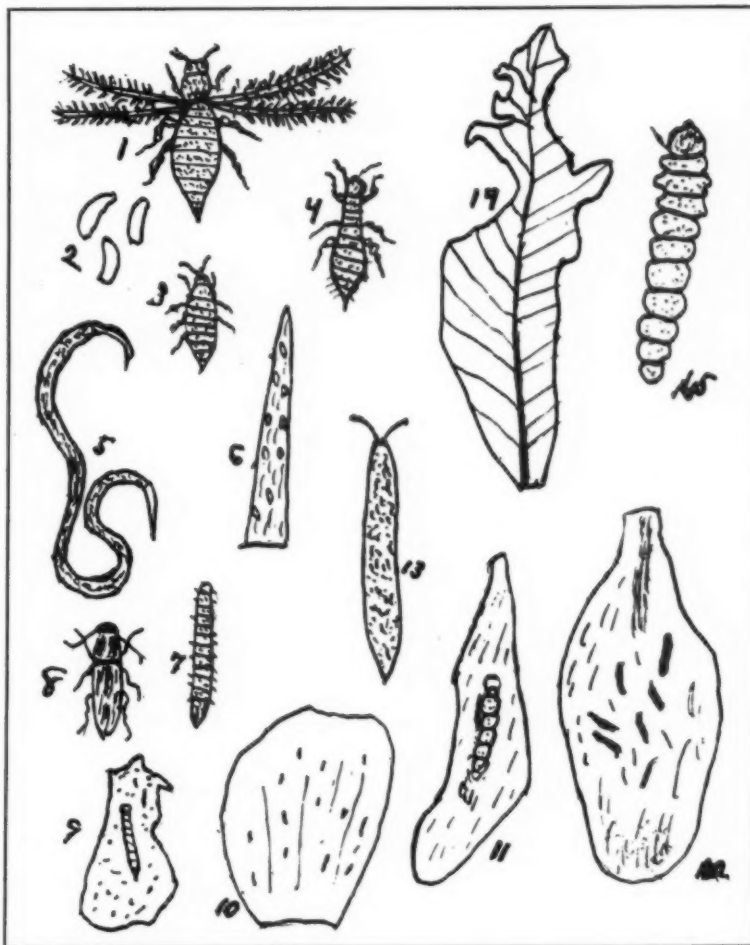
The thrips is a small, slender, active insect—a louse about one-twenty-fifth of an inch in length, the size of a pencil mark; adults are a little larger. There are several species. The distinctive one on gladioli is yellow to orange and is found under the leaf sheaths and bud sheaths or inside the open flower. The insect has four stages, adult, egg, larva and pupa. With the aid of a magnifying glass one may find five transverse light-colored bars on the lower part of the abdomen, especially of the males. The larvae from hatched eggs are creamy-white and too small to be seen with the naked eye. Later they become lemon-yellow and black. They move rapidly and usually retreat into the crevices between the bases of the petals or leaf sheaths. Mating takes place on the second day of adult emergence, and egg laying begins soon.

The average length of life of the adult is about one month. The creatures live over on the corms in storage and require a temperature of about 50 degrees to complete their growth. The pupa stage lasts three weeks. The rate of development and multiplication is determined largely by temperature. At a temperature of

80 degrees the developmental stage takes place rapidly. The best temperature for corms is also best for thrips. The eggs often fail to incubate at temperatures slightly below 50 degrees.

In the matter of control, it is well to destroy all stems and stalks at harvesting time by hot fire or deep burying. Thrips increase more rapidly in hot, dry weather; so control measures should be intensified when this weather condition prevails. Spraying with nicotine or similar solutions, such as tartar emetic (one teaspoonful of it and four teaspoonfuls of sugar to one gallon of water), is effective only if done early in the season. DDT is likely to be found effective

in controlling thrips, but nicotine and soap give good results. Treating the bulbs before planting, so as to avoid planting the thrips on the bulbs for the new crop, is efficacious. A formaldehyde dip, with one pint of it in thirty gallons of water, will kill the creatures. The corms may be in gunny sacks for convenience in handling. The immersion should extend over several hours, and ample drying out and ventilating after the dip are imperative to allow all residue on the specimens to escape so that new growth will not be injured. A small number of bulbs can be treated in tightly closed boxes or bags into which has been placed a handful of naphtha flakes. A week



Legends to diagrams: 1, Gladiolus thrips, adult with feathered wings; 2, its eggs, and 3, its nymph; 4, iris thrips; 5, nematode worm, greatly enlarged; 6, rust on iris; 7, wireworm, and 8, its beetle; 9, amaryllis worm in stem; 10, spot disease of tulip leaf; 11, borer in peony rhizome; 12, wireworm in dahlia; 13, spotted garden slug; 14, work of canna leaf roller; 15, iris borer.

or more is needed for exposure to the enclosed flakes and corms. Remove the husks before treating the corms.

#### Pink Rot.

Corms of gladioli often become affected with pink rot, or fusarium decay. Affected corms have small reddish-brown spots with water-soaked margins. With later development the spots enlarge and become a soft pink in color as well as dry and punky. Pink rot is a storage disease, but infection usually starts outdoors. It may spread in storage quarters by contact or by handling and becomes quite visible at planting time. There is no control of affected corms; they should be destroyed. All storage quarters should be cleaned and cleansed with a disinfectant and well aired before used again. Affected corms will soon rot if planted.

#### Black Spot.

Scab, or black spot, is the most common disease of gladioli. It is caused by bacteria, the smallest of plants, which are microscopic in size but manifest in mass on the corm. The spots are first dark, sunken and brown, becoming black in due time, with streaks on the side of the specimen and brown lines on the husks on the exterior. Often the disease is not seen except as the husk is removed. The only control is the use of healthy planting stock and the use of clean, disease-free soil. If there is much disease, new land is urgent. Scab increases each year under conditions of neglect and indifference. Varieties vary much in their susceptibility to scab. In general, the red-tubed sorts are more subject to scab than the yellow ones. Diseased gladiolus corms cannot be certified and should not be sold or planted. Customers may properly insist on healthy stock which is certified by field and storage inspection.

#### Borers in Rhizomes.

Iris plants and sometimes peonies are subject to considerable injury by the larvae of a moth boring in the leaves and later descending to the crowns. The presence of this insect is indicated upon examination of plants or rhizomes, as the leaves wilt because of injury to the water tubers that conduct water upward.

The insect passes the winter in the egg stage. Hatching commences in May from eggs laid by the dusky dun moth at the base of iris leaves in September. As hatching may extend over several weeks, the appearance of the worms is successive in May and later on. As the winter is passed in the egg stage, much damage may

be forestalled by burning over the iris plants in early spring before growth starts. It is well to loosen the litter, let it dry out for a day or two, then apply the torch to burn off all the leaves in the trash. In incipient cases the grubs in the leaves may be crushed while small by drawing the leaf between the thumb and fingers. Iris borers cannot be controlled by spraying or dusting. Affected rhizomes, if not too numerous, can be cleared of grubs by lifting them and digging or worming them with a pliable wire that is thrust in the canal. In bad cases one should destroy the plants to clear them out. In practical work one should discard all diseased tubers and destroy them.



T. A. Sand.

Injuring the bulbs should be avoided; sort them carefully before planting. Ounces of prevention are worth pounds of cure, and cheaper, too.

#### Nematodes in Narcissi.

Narcissi are sometimes affected with small worms of microscopic size known as nematodes. The symptoms are brown rings on the cut surface of bulbs, more conspicuous if the specimens are cut across rather than lengthwise. Young leaves become yellow and twisted and tend to lie flat on the ground. The hot-water treatment before planting is the preferred control. Heat the water to 110 degrees for two and one-half hours with the bulbs immersed. Then a cold water bath completes the treatment, after which the bulbs may soon be planted.

#### Lily Mosaic.

In the mosaic disease of lilies the leaves are mottled and faintly streaked, often reduced in size, and

the plants are somewhat stunted. The flowers may be distorted in badly affected plants. All diseased plants should be discarded and an effort made to secure healthy bulbs for propagation and planting. Mosaic is contagious and is spread chiefly by lice and leaf hoppers; so these creatures need to be controlled. The melon louse is probably the chief vector, and leaf hoppers may spread mosaic.

#### Fire Disease of Tulips.

A botrytis blight of tulips referred to as "fire disease" is often seen in tulip beds. The symptoms are small black spots the size of a pinhead on the outer husks of bulbs. Yellow or brownish rot-like scars or lesions occur on the tubers. The yellow spots are surrounded by water-soaked areas on the leaves. These areas often enlarge to cover the complete leaf and

[Continued on page 42.]

#### T. A. SAND.

T. A. Sand, vice-president of the California Association of Nurserymen, has had thirty-seven years of nursery experience. His most recent venture in the field is Del Rancho Fortuna, located at McFarland, Cal., a strictly wholesale nursery growing shade, fruit, nut and citrus trees and grapevines for the retail trade only.

Fourteen of Tom Sand's years in the nursery trade were spent with four nurseries all owned at the time by George C. Roeding, Sr.—Old Fancher Creek Nurseries, Roeding & Wood Nurseries, Fresno Nurseries and California Nursery Co. During this time Mr. Sand grew such typically California products as fruit and shade trees, ornamentals, citrus fruits, figs, olives, avacados, grapevines and roses.

Ten years were spent with Melcher-Sand Nurseries, Inc., in Fresno and Kern counties, and six years in Kern and Tulane counties with the state of California's division of highway tree maintenance. For five years, Mr. Sand owned Kern County Wholesale Nursery, which grew grapevines for the wholesale trade. This was a branch of Sorensen-Sand Nursery Co., Ltd., growers of fruit trees, which Mr. Sand operated at the same time.

In March, 1945, Mr. Sand bought out the interests of Mr. Sorensen in the latter enterprise and started Del Rancho Fortuna. This year his firm has 160 acres net of growing stock on 560 acres of its own land. It has its own scion orchard of over 5,000 trees and will add new and interesting varieties each year.



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## CHARLIE CHESTNUT

### THE BLUE BAG



Probably the members have done it more than once. That is, the ten dollar members of the convention. Like me and Emil they have sat in the packing shed, cutting bags or sorting over bent nails, while it was raining. Me and Emil was doing that one day last spring, at the same time making mental notes where the leaks were in the roof, although it is a good bet we will never fix any leaks. When the sun shines none of the ten dollar members has got time to be up on the roof fixing leaks. We was working along chewing the rag for a hour or so, when Emil picked up a bag that was different than any we had seen. It was a small blue bag, only half size, with nothing on it at all, no printing of any kind.

"Wonder where we got that bag?" says Emil holding it up. "Never seen a bag like it before. Wonder what come in it?"

We turned the bag inside out, but we couldnt make out what come in it. "That was in the bunch of bags we got over to Min Laval's at Samtown," I says. "Remember when we was in there last fall when you got beat on four aces and Min had the five sixes."

I could tell that Emil was just waiting for some excuse to get out of the bag cutting so I wasnt surprised when he says, "Charlie, it looks to me like we was running short of bags. We got to have sixty bags for Mrs. Brewster's order. Maybe we better take the truck and get out on the road and see what we can find."

I got the Chevy out of the corn crib and we started out.

"Where we heading first, Emil?" I says.

"Drive over to Min's, she ought to have some more bags saved up by now," Emil says. "Besides I'm curious about that blue bag."

For the benefit of the members that never seen Min, I will say that they missed a great character. Min Laval's runs a little crossroads tavern and tourist camp, on the road out west of town. They call it Samtown on account of Min's husband Sam. There aint no town there at all, only the little dumpy place of Min's, with a half dozen cabins in the back and her chickens, which she fries up now and

then when she is in the mood, for some of her choice customers.

Thirty years ago, they say that Min was a beautiful woman. She used to ride an elephant in the circus parade and sing ballads in a deep voice, to all the country folks along the curbs in small cities from coast to coast.

There is still a lingering suggestion of past glamour left in Min, although she has added a lot of weight and four chins and she is nearly seventy. She sits in back of the bar on a high stool with her black pocketbook pinned onto her apron. Her greatest pleasure is to get a few of the boys in a seven card stud game with deuces wild. It is always the same game for a ten cent limit. She will sit there as long as anybody will play.

Old Sam, her husband, was once a barker for the side show. He still has a certain dash in his dress. He is tall and straight and looks years younger than Min, although he is the same age.

Sam always wears a flowing black tie with a big cameo on his shirt front. Min sort of looks after him like a baby, as Sam is nearly stone blind. You would never know it to see him operate. He can draw beer in a pinch, but most of the time he sits in a rocker by the stove and visits with the customers.

That day when we went into Min's, there was a couple of farmers with a three handed game going, so me and Emil joined in just to please Min. We had to keep on the good side of her on account of the bags and anyway Emil likes nothing better than to play a little poker and drink beer on a rainy day.

After the poker game run out in an hour or so, the farmers went home and nobody was left but Min and Emil and me. Emil says, "Min, we was cutting burlap bags today, when we run onto a dark blue bag, a small one that Charlie says we picked up here last

## DEVELOPING NURSERY SALES AND DISPLAY GROUNDS

By Harold E. Hunziker

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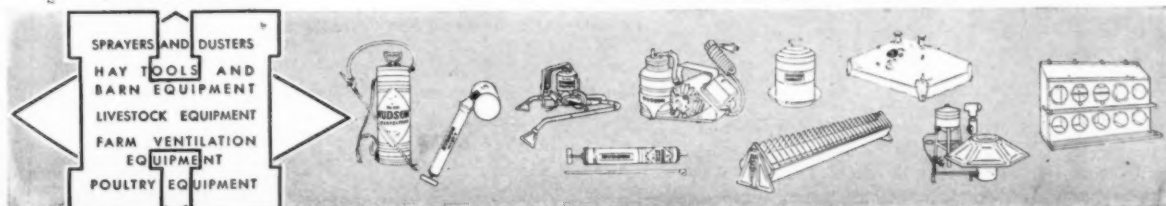
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fall. Never seen a bag like it. It looks like burlap, but it might be something else. Did you ever see that bag Min? Or maybe we got it some place else."

Min was sitting on her stool looking out into the late afternoon drizzle. Sam was asleep in his chair. For several minutes Min didn't say anything. Then she shifted her 250 pounds on the stool.

"A small blue bag?" she says. "Yes, I remember it well." Then she told us the story of the blue bag which was as follows as near as I can recall it.

"Its thirty-five years ago when I got that bag, Emil," she began. "Its been around in closets and dresser drawers until last fall when I pitched it out in the junk and thats how you come to get it."

"Where did it come from, Min?" says Emil as he lit his pipe.

"Sam and I was with the Nonesuch Bros. Circus that summer touring the west," Min continued. "Sam had a good line of freaks and I was riding the elephant and singing. Then I only weighed ninety pounds. I'll show you some of my pictures."

She waddled into the rooms in back of the bar where they lived and come out with an old box filled with photographs. "Here was Sylvia," she says, handing me a dogeared photograph. "She was always my favorite elephant. I rode her in parades in forty states. I rode up there in the canopy with the fringe and the tassels on the top." Min was beaming as she looked at that old picture. Again she was Minnie Lavalie with the deep loud voice that could be heard for five blocks above the noise of the crowd.

"We were playing a town out west of Omaha," Min went on. "It was a hot day in July I remember. The band was playing Put On Your Old Gray Bonnet. That piece was just out then. I was singing, I used to come right in back of the band. Sam always played in the band in parades. He was good on the slip horn."

"Did I ever tell you about the time Min, when I played in the Firemens Silver Cornet Band?" Emil horned in.

"Let her tell the story Emil," I says. "I want to hear about that blue bag."

"The whole town was out for the parade," Min went on, "and Main street was lined ten deep with people. Just then I saw a commotion on the sidewalk, as I was up in the air where I could see what was going on. Two men were running out of the bank. One of those men had that blue bag in his hand. In no time the street was in an uproar. Sylvia got nervous and started stamping around. People were running in all directions. Shooting irons were common in those days in the west and about that time the

shooting started. From somewhere that bag sailed over the rail of my canopy and dropped on the floor. Three men were stretched out on the street and one of them was one of the bandits. The shooting was going on all around and thats how Sam got hit. A bullet creased the front of his head and he never did see after that."

"My, gosh! What was in the bag, Min?" says Emil with his eyes popping out.

"I'll come to that," Min says. "Anyway we got back to the circus grounds as best we could. I hid that bag under the robe which I always wore in the parade. I thought there was money in it, but I didnt dare look. I went over to comfort Sam after the doctor had bandaged his eyes. That was the end of the circus for Sam and me. I stayed behind for a month waiting for Sam to get his bandage off. My conscience was bothering me about the bag which I had hid in the trunk. It was sealed with a lead seal, but I still didnt want to know if I had stolen money in my possession. It kept my spirits up during those weeks of waiting."

"I wouldnt have wasted no time looking in that bag if it was me," says Emil.

Min continued the story. "Then one day I got a letter which I burned at once. It was a letter without any date or any name on it. It said that no doubt I had discovered there was no money in that bag and that it was a phony robbery faked up by the cashier of the bank, who was short in his accounts. The letter said, 'My

partner and me was hired to do the trick to make a getaway with the bag. We got \$2,000 and as you know my buddy was killed. Enclosed is his half of the take. I'm sorry your husband got hit, but maybe this money will give you a new start.' Thats all there was to the letter, no name or nothing."

"After that I opened the bag. There was a lot of old bonds and some worthless papers in it and that was all. I just saved the bag for a memento and burned up the other stuff. Me and Sam took the \$1,000 and started this place. Sam thought it was my savings, but circus people never save anything."

Min got down off the stool. "Here, Emil," she says, "have a beer on the house."

Emil snapped out of it at the mention of a free beer. "Min," he says, "you had it coming to you no matter how you come by the money. Charlie," he says to me, "I told you there was something mighty funny about that blue bag mixed in with the others."

Just then old Sam sitting there by the stove started to chuckle. "Min," he says, "I heard you tell a lot of tall yarns but that was a good one. You want to watch out or you will have some of the boys believing you and they might start an ugly rumor or something."

"Oh hush up, Sam," she says, "you are supposed to be asleep. Anyway it might be true for all you know," she says laughing.

Me and Emil was taken in hook,  
[Continued on page 43.]

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# Some European Alpines

By C. W. Wood

I am happy to have the opportunity to say a few words in praise of a splendid alpine, *Scabiosa lucida*. Apparently it is not well known in this country, and although it grows in altitudes as high as 8,000 feet, seldom do I find it used as a true alpine should be. When seen at all, it is usually in the good soil of borders, and it then reaches a height of about eighteen inches. That makes it a good border plant, but it loses all aspects of an alpine under such treatment. On the other hand, it will, if given the starvation diet of a moraine, seldom grow over six or eight inches in height. In either case, however, it will give a summer-long production of lavender to lilac pincushions. It is one of the most indestructible alpines that I know, doing well in almost any summer situation that is well drained and persisting for years under the most adverse conditions. It is, in my opinion, a splendid plant for the alpine grower, although it need not be confined to that phase of gardening.

Like so many composites, homogyne has its bad points along with its few good ones. Its worst fault is its spreading habit, when it has the conditions it likes, including a damp spot in shade. Then it will spread a low, evergreen carpet (allover green in *H. alpina* and green with a silvered white reverse in *H. discolor*). The rosy-red flowers are of less consequence.

*Aster alpinus* is a cosmopolitan plant, inhabiting many mountain ranges in Europe and Asia as well as in western America. As it has traveled over much of the northern hemisphere, it has varied not a little in color, size of flower, stature and natural habitat. It will not be necessary to discuss color here, except to say that *A. alpinus* is, or has been, in American trade in white (as in the grand *magnificus*) through pink, lavender, blue and violet to purple. It will be seen that here is material to suit many associations. Stature is less variable, usually reaching about ten inches. Cultural needs do, however, vary quite a little. But as we are discussing European alpines, it is quite safe to say that material from that section of Europe will respond best when given a limestone soil. That and moisture during the growing season should keep this aster happy, and then it is one of spring's better ornaments.

Many of the above attributes, in-

cluding a wide range in the northern hemisphere and variability, could be repeated about the subject of the present paragraph, *Erigeron alpinus*. This plant could easily be mistaken for the aster by nonbotanists, except that it is lower in stature (four or five inches), and of course it differs in many characteristics in which gardeners are seldom interested. It is, nevertheless, a charming little alpine, with pretty lilac-colored daisies above rosettes of usually glabrous leaves, for two months commencing in May. It is quite easy to grow in a sunny aspect, with enough humus in the soil to carry it through dry weather. *E. alpinus* is easily propagated from seeds or divisions.

We see many composites mentioned in the literature on European alpines, but, if my experience with a long series of them is a good basis for judgment, one engaged in the plant-growing business for his bread and oleomargarine should go lightly with them until he knows what he is getting when he buys stock material. For instance, there are scores of artemisias, among which one could soon be lost in a forest of names. But a few kinds are so exciting that one cannot ignore them. Some, like *A. mutellina*, growing in places as high as 12,000 feet, are a little too difficult to cultivate to be included in a general list of plants, but, after all

the miffs are eliminated, we still have a long list from which to choose. It would be impossible to make a choice among them, so I put my hand in the bag and drew out *A. glacialis*. (It might as well have been *A. pedemontana*.) *A. glacialis* is a 3-inch silvered mite from the high (9,000 feet) peaks of the Alps, whose lovely foliage is worth twice the effort it takes to keep it going. It is, in fact, quite easy to manage in lowland gardens if given a sunny position on a ledge or in a wall, with perfect drainage, yet with some provision for moisture in long droughts. I should add, however, that most alpine composites are thankful to get a little top-dressing every year. They have a tendency to push their crowns too far above the surface, a condition that is usually taken care of in nature by falling debris. In the garden that task has to be taken care of by the gardener.

*Achillea* is another tangle of names; it is also a tangle of weeds among a few good garden subjects. It is my opinion that the best garden material will be found among the numerous hybrids, but we are now concerned with the natural species, and I chose *A. clavennae* for our subject. Here we have a lovely, silvered plant which grows to six inches, with pretty white flowers in late spring. It is easy to grow, too, under the same conditions as *A.*

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glacialis. Perhaps I should say a few words about *A. herbarota*, because the literature is full of praises for it, some writers becoming so enthusiastic about it as to lead one to think it the best of the milfoils. It cannot be denied that it is a desirable plant, especially when in bloom, with its large (considering the size of the plant), white flowers. It lacks the silver of *A. clavennae* and it is rather hard to manage in this dry climate of northern Michigan, as it requires constant moisture at the roots and, at

the same time, good drainage. That is not to be wondered at, when we remember that the plant grows at 8,000-foot altitudes in the Piedmont Alps.

I should not mention chrysanthemums at all were it not for the fact that we hear recommendations of them on every hand. It is not likely, however, that many eastern gardeners will be interested in either of the alpine species, *C. alpinum* and a plant I had from the Pyrenees as *C. tomentosum*, because they take more atten-

tion in this climate than the average gardener cares to give his plants. If you think you must have a chrysanthemum, try *C. alpinum*, giving it well drained situations in sun and plenty of moisture at the roots.

There is a medium-size composite found on limestone peaks up to 9,000 feet in central and southern Europe, variously known as *Doronicum aronicum* and, I believe, as *D. arnica*, which should be in American gardens. I suspect that its almost complete absence is accounted for by the

fact that its two sister plants, *D. clusi* and *D. glaciale*, are quite impossible to cultivate in this climate. On the other hand, *D. scorpioides* is quite amiable when given limy soil, kept well drained, and at least planted in half shade. Lime is essential, as is shade in this climate, with some moisture in dry weather. The reward is a handsome plant when it commences in late spring and continues for a month or more to produce its large yellow heads on 15-inch stems.

Most of the senecios spoken of by writers on alpine plants (many have come out of England, where the climate is suited to alpine culture) are too uncertain in our climate for general cultivation. Thus, *S. incanus*, which they rave about, especially about its woolly, felted leaves, needs more moisture at the roots than our climate, or even moderate care from the gardener, affords. On the other hand, *S. arbutanifolius* can be made happy with little care, if given a rocky (limy) soil containing enough leaf mold to hold moisture. It then makes a tuft of finely divided leaves, above which are displayed clusters of pretty orange-red flowers on 8 to 10-inch stems for two months or more, commencing in May.

Until I just now examined the literature on the alpine thistle, *Carlina acaulis*, I did not know it was regarded as a biennial. That may be one reason for its neglect in gardens, for gardeners usually have an abhorrence of biennials. I know from experience, however, that this plant is not normally a biennial; so we can set that at rest. More than ten years ago I planted a group of a dozen of these thistles in a client's garden. I saw them this summer, and all except two were still going strong, having increased in size of clump, although they do not all bloom every year, it is reported. It may be that a tuft dies after flowering, although I have never followed that phase through to a conclusion, but they usually save offsets to carry on if they do.

Be that as it may, *Carlina acaulis* is an intriguing plant, lovely in its large rosettes of spiny leaves and spectacular in its shining, silvery heads, as much as six inches across. Give it a sunny situation in stony soil and let it alone.

When you read in your books on alpine about the unique beauty of the saussureas, you can take it as true regardless of where they are grown. When you read in these books, however, remember that the information probably came from a writer in the British isles and that it does not necessarily apply to your conditions. In fact, if you live in the

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eastern part of the United States, you will likely find saussureas among the more difficult alpine. I have been able to handle them with any degree of satisfaction only in a limy soil that was constantly moist, and in at least half shade. The best that I have grown is *S. pygmaea*, a little mite of three inches or so, with a head of lovely pale violet.

I have grown scores of centaureas and few, either alpine or lowland, have been exciting in their flowers. In fact, if a centaurea does not have pretty leaves, I am not usually interested in it. The Asiatic *C. babylonica*, with its immense (sometimes to four feet across) rosette of silvered leaves, is a case in point. When we come to the European alpine, *C. uniflora* is another. Each one of its 6-inch stems carries a single unexciting head of rosy-purple, but the tuft of leaves, which are white and cottony on both sides, is a joy to behold. All it needs is perfect drainage in full sun and a little moisture in dry weather.

Some of the alpine species of *crepis* are quite beautiful (the tiny *C. jubata*, for instance), but none of the high alpine is really easy to manage in this climate. However, the pink-flowered *C. incarnata* is pretty enough to demand attention and is quite easy to grow in gritty soil, in

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sunshine. In the lean soil which is best suited to most alpine, it seldom exceeds six inches, but may grow a foot high in a richer medium. In either case, it is a bright ornament in the garden in June and July.

Until *Hypochoeris uniflora* comes into flower in July and August, the rosette of hispid leaves would scarcely attract attention. But when it sends up its 5 or 6-inch stems, each carrying a big yellow daisy, two inches wide, it is an attractive plant. One can have it all for little trouble—a good friable loam and some moisture if the weather is dry.

Before writing this note on *scorzenera* I went to "Hortus" to find out the latest interpretation of the names, and I am now worse off than I was before, for I find that Bailey gives *S. rosea* as a synonym of *S. purpurea*. That may be right from the botanists' standpoint, but it is grouping two quite distinct garden plants. As I have grown the two plants from European seeds, *S. rosea* seldom exceeds six inches in height and its flowers are a lovely shade of rose, while *S. purpurea* may grow two feet high with much darker, violet-purple flowers. Thompson tells us that the small one (*S. rosea* of Waldstein) is a rare plant, although quite widely distributed in the Alps and in the Carpathians. If you procure it and will give it a light, gritty soil in full sun, you will have one of the better easy alpine of early summer.

I have had so much trouble ridding the garden of unwanted hawkweeds that I scarcely ever try a new one now. No one is apt, however, to have trouble with *Hieracium lanatum*, a plant that reaches 6,000 feet or more up the mountains, where it lights up limestone cliffs with a shower of yellow daisies for two months or more from June onward. However, the glory of the plant to me is its lovely gray, woolly leaves, season-long ornaments which offer only one problem in their cultivation—that of keeping damp from the leaves in wet weather. But that is quite easily solved, by giving the plant a high position in light soil and a wide collar of limestone chips.

#### PEAR PSYLLA OUTBREAK.

The sudden and destructive outbreak of pear psylla in many orchards and nursery blocks late in the season has given increased emphasis to 1946 as a year of problems for New York nurserymen. The presence of the insect is now strikingly demonstrated by the blackened appearance of many pear trees in widespread areas of the state.

Few people noticed the rapid multiplication of the psylla that took place during July and August, with the result that by September many pear trees were dripping with honeydew, and the black, disfiguring sooty fungus had developed on trees and fruit alike. In the case of nursery stocks large blocks have been rendered unsightly, with a resulting reduction in sale value.

Commenting on the outbreak, entomologists at the New York agricultural experiment station at Geneva point out that pear psylla has been so scarce since 1940 that it has actually been difficult to find enough of the insects to conduct control experiments. This was true even this spring, they say. "From before 1910 until about 1936, pear psylla was abundant and killed many trees throughout the state where inadequate control treatments were made," say the station workers. "However, the numbers decreased remarkably everywhere during the late 1930's and did not become troublesome until late this summer."

Effective methods of control by spring and summer spray treatments have been available for the past twenty-five years as results of experiments carried on at the station, and improvements have been made

with the development of new insecticides. Therefore, the pear psylla is not new and is not to be feared if the proverbial stitch in time is taken when the insects first make their appearance in alarming numbers.

#### GLADIOLUS INSPECTION.

Vastly increased production of gladiolus bulbs in different sections of the country in recent years has brought in its wake susceptibility to diseases and insect pests which affect either the bulbs or the later production of flowers.

Some states had offered the gladiolus bulb growers within their borders the assistance of voluntary inspection. In fact, in some states the growers themselves recognize the desirability of enforced state inspections to protect them against imported pests and diseases, as well as to establish the merit of their own bulbs for shipment to other parts of the country.

Not many states produce gladiolus bulbs in large quantity, and the interest in state inspection is limited. In certain areas there has been co-operative action between the growers and the sectional plant boards, composed of state inspection officials,

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## NURSERY STOCK

	Per 100	Per 1000
<i>Viburnum Setigerum</i> , seedlings, 4 to 6 ins.....	\$ 5.00	\$37.50
<i>Styrax Obassia</i> , seedlings, 6 to 10 ins.....	10.00	.....
<i>Buxus Microphylla Compacta</i> , Kingsville Dwarf Boxwood		
7-yr., spreads, 3 to 4 ins.....	50.00	400.00
<i>Cornus Florida Plena</i> , Double White Dogwood.	Per 10	Per 100
4 to 5 ft.....	\$20.00	\$175.00
5 to 6 ft.....	27.50	250.00
6 to 8 ft.....	35.00	300.00
<i>Cornus Florida Welch</i> , Tricolored-leaf Dogwood.		
1½ to 2 ft.....	8.50	75.00
2 to 3 ft.....	15.00	125.00
3 to 4 ft.....	22.50	200.00
<i>Prinsepia Sinensis</i> , 4-in. pot plants.....		75.00
Packing at cost.		

KINGSVILLE NURSERIES

Kingsville, Md.



looking toward uniform regulations in regard to state inspection.

The North American Gladiolus Council made recommendations in this regard to a committee of the Central Plant Board, upon which action was taken at the latter's meeting this year. H. F. Seifert, horticultural inspection supervisor in the Illinois department of agriculture, headed the committee. In his report to the Central Plant Board at its meeting at St. Louis he included the request for more applicable gladiolus inspection regulations drawn up by the committee of the North American Gladiolus Council.

In its request the latter committee asked for a revision of the insect control regulations and the continuation of the inspection program both during the growing season and while the corms are in storage and suggested that emphasis be placed on thrips and fusarium rots during the inspections. Another suggestion made in the N. A. G. C. request was the recommendation for chemical treatment of corms for the control of gladiolus diseases. The N. A. G. C. also asked that the percentage of tolerance for the various insects and diseases be clarified and that such terms as virus and mosaic be defined as applied to gladiolus ailments.

After consideration of the recommendations made by the N. A. G. C., the Central Plant Board committee for the revision of the gladiolus inspection regulations presented a revised version of regulation 25, which was adopted, as follows:

"Gladiolus corms in order to be eligible for certification must have at least one field inspection on or about flowering time and at least one storage inspection after the bulbs have been dug and cleaned.

"Thrips: Where thrips are present, all corms, if certified, are to be treated with a recognized method that will eliminate the infestation.

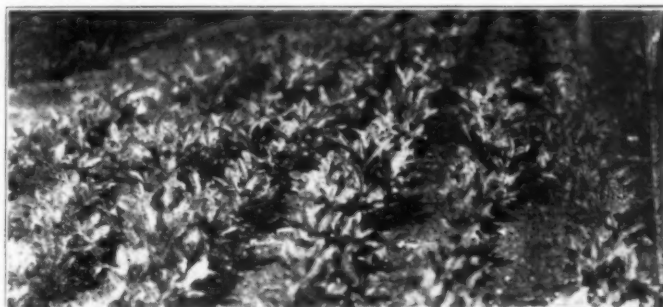
"No shipments of corms under certificate are to be permitted showing more than two per cent infection of any diseases with the exception of fusarium rot, on which no tolerance will be allowed on visible symptoms."

ENGAGED in landscape work before going into the nursery business for himself, H. D. Day has established Brent's Nursery, at Jackson, Miss.

PEONIES, day lilies and rhododendrons will be among the stock grown by the new Laurel Glen Nursery, Box 363, Signal Mountain, Tenn., owned by Clint McDade and managed by Mrs. Arthur Parry.

## LINING-OUT STOCK

	100 rate, ea.		100 rate, ea.
<i>Azalea mollis</i> , 1 tr. beds, 2 to 5 ins.	\$.10	<i>Ilex bullata</i> , Tr., 3 to 5 ins.	\$.18
(1000 rate, 9c ea.)		<i>Ilex rotundifolia</i> , Tr., 3 to 5 ins.	.18
<i>Acer pensylvanicum</i> , S., 4 to 8 ins.	.10	<i>Pyramidal Arborv.</i> , Tr., 3 to 5 ins.	.14
<i>Euonymus alatus</i> , S., 4 to 8 ins.	.10	<i>Philadelphus coronarius</i> , S., 6 to 12 ins.	.06
<i>Euonymus carrierei</i> , Tr., 4 to 8 ins.	.10	<i>Paulownia tomentosa</i> , S.	.09
<i>Euonymus carrierei</i> , Tr., 8 to 12 ins.	.14	<i>Rhododendron Hyb.</i> , 1 Tr.	.14
<i>Euonymus coloratus</i> , Tr., 4 to 8 ins.	.10	(1000 rate, 13c ea.)	
<i>Euonymus fortunei</i> , Tr., 4 to 8 ins.	.12	<i>Tsuga canadensis</i> , Tr., 6 to 9 ins.	.20
<i>Euonymus patens</i> , Tr., 3 to 6 ins.	.10	<i>Viburnum opulus nanum</i> , Tr., 2 to 4 ins.	.10
<i>Euonymus europaeus</i> , S., 6 to 12 ins.	.06	<i>Viburnum opulus</i> , Tr., 12 to 24 ins.	.10
<i>Globe Arborvitae</i> , Tr., 2 to 4 ins.	.14	<i>Vitex agnuscastus</i> , S., 6 to 12 ins.	.08



Azalea Mollis Bed Transplants

## FINISHED NURSERY STOCK

	100 rate, ea.		100 rate, ea.
<i>Azalea mollis</i> , 6 to 9 ins.	\$.35	<i>Hemlock</i> , 5 to 6 ft.	\$.75
<i>Azalea mollis</i> , 12 to 15 ins.	1.35	Above 6 ft., per ft.	\$.20
<i>Azalea mollis</i> , 15 to 18 ins.	1.65	<i>Rhododendron Hyb.</i> , 12 to 15 ins.	2.75
<i>Azalea mollis</i> , 18 to 24 ins.	2.00	<i>Rhododendron Hyb.</i> , 15 to 18 ins.	3.50
<i>Austrian Pine</i> , 6 to 8 ft.	6.50	<i>Taxus capitata</i> , 18 to 24 ins.	3.75
<i>Cercis canadensis</i> , 6 to 8 ft.	3.50	<i>Taxus capitata</i> , 24 to 30 ins.	4.50
<i>European Mt. Ash</i> , 10 to 12 ft.	3.50	<i>Euonymus europaeus</i> , 3 to 4 ft.	.50
<i>European Plane</i> , 8 to 10 ft.	2.50	<i>Euonymus yedoensis</i> , 3 to 4 ft.	1.50
<i>Elm, American</i> , 2 to 4-in. cal.		<i>Euonymus carrierei</i> , 15 to 18 ins.	.50
Per caliper-inch, Br.	3.50	<i>Viburnum opulus nanum</i> , 6 to 9 ins.	.35
<i>Pin Oak</i> , 5 to 6 ft.	1.25	<i>Viburnum opulus nanum</i> , 9 to 12 ins.	.50
<i>Pin Oak</i> , 6 to 8 ft.	1.75	<i>Prunus yedoensis</i> , 5 to 8 ft.	.75
<i>Pin Oak</i> , 3 to 5-in. cal. Per cal.-in.	3.50	<i>Prunus serrulata</i> , 5 to 8 ft.	.75
<i>Hemlock</i> , 3 to 4 ft.	3.75		
<i>Hemlock</i> , 4 to 5 ft.	4.50		

TERMS: CASH. No packing charge on Lining-out Stock. Shipped via express only. All stock State and Federal inspected. Beetle certificate furnished on request.

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### LANHAM TRADE-MARK LAW.

The new Lanham trade-mark act, recently passed by the Seventy-ninth Congress, becomes effective July 5, 1947. In the meantime it should be studied by all interested in horticulture or agriculture who have registered their products, because the law brings under a single statute all trade-marks and trade names now in use.

Casper W. Ooms, commissioner of patents, in commenting on the law, says:

"Under the new law a mark will become incontestable after five years of registration and continuous use. This provision will confer on the trade-mark owner a security not heretofore available and will make registration more desirable.

"However, the statute prevents marks from becoming incontestable when they have in fact been in prior use by another, fraudulently registered, abandoned, used to misrepresent the source of goods or used to violate the federal antitrust laws.

"Three classes of trade-marks not registerable under the old law may be registered under the Lanham act. They are marks which are merely geographical, but which have through long use acquired true trade-mark characteristics; marks used simultaneously by two traders in remote and independent territories who have each acquired true trade-mark rights, and marks used by service establishments which do not manufacture or sell merchandise, such as cleaners and dyers, laundries and repair men.

"The new law makes it easier to sell or otherwise transfer a mark to a new owner, and gives special protection to newspapers, printers and others who may innocently and incidentally participate in trade-mark infringement.

"A new schedule of fees, slightly higher than those now in effect, is established by the act. The new fees are designed to cover the increased costs of administering the trade-mark act.

"Present trade-mark owners who wish to secure the benefit of the incontestable provision of the Lanham act are permitted to republish their marks, thus bringing them under the new law. This is expected to result in the publication of thousands of marks now registered and should help in eliminating from the register marks no longer in use.

"Another provision of the Lanham act which should help keep the trade-mark register up to date is a requirement that each registrant must, within the sixth year of a mark's registra-

## LINING-OUT EVERGREENS

	Per 100	Per 1000
Juniper Virginiana, Platte River type, 4 to 6 inches, transplants.....	\$ 6.00	\$ 50.00
Juniper Virginiana, Platte River type, 2 to 4 inches, transplants.....	4.00	30.00
Pinus Densiflora, 18 to 24 inches, transplants.....	12.00	100.00
Pinus Banksiana (Jack Pine), 2 to 3 feet, transplants.....	14.00	130.00
Pinus Banksiana (Jack Pine), 18 to 24 inches, transplants..	12.00	100.00
Pinus Mughus (Mugho Pine), 6 to 9 inches, transplants, well shaped .....	20.00	180.00
Pinus Ponderosa (Bull Pine), 9 to 12 inches, transplants...	9.00	75.00
Pinus Sylvestris (Scotch Pine), 18 to 24 inches, transplants.	15.00	135.00
Spruce, Black Hills, 9 to 12 inches, transplants.....	15.00	125.00
Spruce, Black Hills, 6 to 9 inches, transplants.....	12.00	100.00
Spruce, Colorado Blue, 4 to 6 inches, transplants.....	7.00	60.00

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100 or more: No. 1, 45c each; No. 1 1/2, 35c each

Less than 100: No. 1, 50c each; No. 1 1/2, 40c each

Terms: Cash or 25 per cent with order, balance C.O.D., plus packing charges.

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Golden Dawn  
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Radiance, Pink  
Roslyn  
Sunburst  
White American Beauty  
Etoile de Hollande  
Edith Nellie Perkins  
K. A. Viktoria  
Poinsettia  
Radiance, Red  
Rouge Mallerin  
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America's finest hardy perennial plant.

	Per 100
Fraxinella, rosy-pink, 1-yr. sdigs. \$ 7.00	
2-yr. strong seedlings.....	13.00
3-yr. transplants, blooming size 23.00	
Fraxinella Alba, white variety,	
1-yr. seedlings .....	8.00
2-yr. strong seedlings.....	15.00
3-yr. transplants, blooming size 26.00	
Cash with order please. Digging in October only.	

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Lining-out stock  
For fall 1946 and spring 1947.

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### *The New Everbearing Strawberry*

We have grown Streamliner for three years and find it much better than any other Everbearer we have ever grown. We recommend that you take advantage of the publicity which will be given Streamliner during the coming season by listing it in your catalog and advertising. All leading growers who have thoroughly tested Streamliner state without fear of contradiction that it is the best of all the Everbearers. Streamliner has real strawberry flavor, is rich red color throughout, is excellent for eating fresh and is recommended for canning or freezing. Its spring crop compares favorably to that produced by today's leading standard varieties. Very productive. Streamliner makes a good fruiting bed.

If you are interested in large numbers of Strawberry plants, or in our pack-out service (whereby shipments are made direct to your customers under your tags), write for details. We have facilities to take care of your Strawberry plant business. Let us figure with you on your particular requirements.

STANDARD VARIETIES	Per 25	Per 100	Per 250	Per 1000
Blakemore, Dunlap, Missionary.....	\$0.35	\$1.15	\$2.00	\$7.00
Ambrosia Late, Big Joe, Gandy, Klondike, Massey, Maytime, Parsons Beauty, Robinson, Suwannee, Southland, Temple .....	.40	1.25	2.25	8.00
Catskill, Chesapeake, Dorsett, Fairfax, Fairpeake, Midland, Premier, Redstar, Starbright .....	.45	1.40	2.50	9.00

EVERBEARING VARIETIES	Per 25	Per 100	Per 250	Per 1000
Gem, Gemzeta, Mastodon, Progressive, Evermore (Minn. 1166).....	\$0.70	\$2.25	\$4.50	\$16.00
New Streamliner .....	1.00	3.25	7.00	25.00

No extra charge is made for the package or packing on Strawberry plant orders. Prices quoted are for delivery as wanted during the coming shipping season, starting November 1, 1946, and ending June 1, 1947, and apply as follows:  
 25 to 75 plants of one variety at the 25 rate.  
 100 to 225 plants of one variety at the 100 rate.  
 250 to 475 plants of one variety at the 250 rate.  
 500 plants or more of one variety at the 1000 rate.

All quotations are F.O.B. Selbyville, subject to stock being unsold upon receipt of order.

Write for a copy of our wholesale list, offering a general line of fruit plants, garden roots, also evergreen and deciduous stock. Please use your printed stationery, showing you are entitled to wholesale rates, when requesting trade prices.

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Selbyville, Delaware

tion, file an affidavit in the patent office showing that the mark is still in use or explaining why it is not being used. If such an affidavit is not filed, the mark may be cancelled by the commissioner of patents.

"The patent office will revise its rules and regulations relating to trade-marks in accordance with the new law."

FRANK ZARUB, Rock Island, Ill., is a contractor who is adding landscape work to his business. His son is a student of horticulture at Iowa State College, Ames, and will join him in the business.

DONALD WHITE, vice-president of the Henry Field store, Des Moines, Ia., will take possession January 1 of Rose Hill Nursery, Panora, Ia., which he has purchased from Fred Jackley. Mr. White will continue the business as a wholesale and retail nursery. Mr. Jackley was president of the Iowa Nurserymen's Association from 1930 to 1932.

### LANDSCAPE MATERIAL

in best assortment, such as Jap. Red Maple, Taxus, Magnolias, Evergreens, etc. Write for list. Also list of liners.

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E. Rutherford, N. J.

### REGAL LILY

For immediate shipment.

	Per 100
6 to 7 inches .....	\$14.00
5 to 6 inches .....	10.00
4 to 5 inches .....	8.00

(Sizes Are Circumferences)

### WILLIS NURSERY COMPANY

Progressive Nurserymen  
Ottawa, Kan.



# Coming Events

## MEETING CALENDAR.

For the benefit of state association officers who wish to set the time of midwinter meetings with a minimum of conflict, the following list is given of convention dates already made known. Secretaries of other associations are invited to notify the editor of further meeting dates as soon as they are set.

December 2 and 3, Minnesota State Nurserymen's Association, Radisson hotel, Minneapolis.

December 4, Western Pennsylvania Nurserymen's Association, Webster Hall hotel, Pittsburgh.

December 4 and 5, Wisconsin Nurserymen's Association, Hotel Schroeder, Milwaukee.

January 7 and 8, Western Association of Nurserymen, Hotel Muehlebach, Kansas City, Mo.

January 8 to 10, Indiana Association of Nurserymen, Purdue University, La Fayette.

January 10 and 11, Iowa Nurserymen's Association, Hotel Kirkwood, Des Moines.

January 13, National Landscape Nurserymen's Association, Sherman hotel, Chicago, Ill.

January 13 to 15, Ohio State University short course for arborists and landscape gardeners, Neil House, Columbus, O.

January 14 to 16, Illinois Association of Nurserymen, Sherman hotel, Chicago.

January 16 and 17, Oklahoma State Nurserymen's Association, Huckins hotel, Oklahoma City.

January 22, Connecticut Nurserymen's Association, Waverly Inn, Cheshire.

January 22, New Jersey Association of Nurserymen, War Memorial building, Trenton.

January 22, Ohio State University short course for nurserymen, Neil House, Columbus, O.

January 23 and 24, Ohio Nurserymen's Association, Neil House, Columbus.

January 29 to 31, Michigan Association of Nurserymen, Pantlind hotel, Grand Rapids.

February 4 to 6, New England Nurserymen's Association, Hotel Statler, Boston, Mass.

## WESTERN ASSOCIATION PROGRAM ANNOUNCED.

Richard H. Jones, Nashville, Tenn., president of the American Association of Nurserymen, will discuss A. A. N. plans for 1947 as one of the featured speakers at the fifty-seventh convention of the Western Association of Nurserymen, to be held January 7 and 8 at the Hotel Muehlebach, Kansas City, Mo. Four other speakers will discuss topics of interest to members of the trade at the 2-day gathering.

Following the opening business routine, the address of welcome will be given by William E. Kemp, mayor of Kansas City, Tuesday morning,

January 7. W. J. Campbell, of the H. V. Jones Real Estate Co., Kansas City, will discuss "The Real Estate Picture." In the afternoon, J. R. Lloyd, meteorologist in charge of the United States weather bureau's airport station at Kansas City, will give a talk entitled "Rain or Shine?" and Dr. C. M. Tucker, of the department of botany at the University of Missouri, Columbia, will be chairman for a discussion of "Diseases of Shade and Ornamental Trees."

A special social meeting is planned for Tuesday evening, with a banquet dinner for nurserymen and their families beginning at 7 p. m. Entertainment will include acts by A. Wond, "The Magic Man," and a group of old-fashioned songs will be sung.

"Fruit Production in the Middle West" is the title of the opening ad-

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Shade Tree Whips . . . a timely finished product saving 2 to 4 yrs. growing effort . . . excellent variety.

A very complete line of  
ORNAMENTAL TREES, SHRUBS  
and EVERGREEN SHRUBS,  
including many scarce items.

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## We Offer—

EVERGREENS—In a large assortment of PYRAMIDAL and GLOBE ARBORVITAE, PFITZER JUNIPER and YEWs in grades at attractive prices. SOME LARGE SPECIMEN EVERGREENS, SHRUBBERY and SHADE TREES.

Mail want list for prices.

**THE WESTMINSTER NURSERIES**  
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**PRINCETON NURSERIES**  
of PRINCETON, N. J.

**SUPERIOR**  
**Hardy Ornamentals**

**NORTHERN COLLECTED EVERGREENS**  
**FERNS**  
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Charlotte, Vermont

dress at the session to be held Wednesday morning, January 8. The topic will be discussed by Paul Shepard, director of the Missouri state fruit and experiment station, Mountain Grove. Following the report of A. A. N. President Jones, also to be heard that morning, the concluding business sessions will be held.

State association meetings to be held in connection with the Western Association of Nurserymen's convention include noon luncheon meetings, January 7, of the Kansas Association of Nurserymen and the Missouri State Nurserymen's Association.

## WESTERN PENNSYLVANIA GROUP ANNOUNCES PLANS.

Speakers at the annual election meeting of the Western Pennsylvania Nurserymen's Association, to be held

## Northern-grown Lining-out Stock

	Per 100	Per 1000
Aronia melanocarpa, 1 to 2 ft.	\$5.00	\$45.00
Betula papyrifera, 1 to 2 ft.	8.00	50.00
Clethra alnifolia, 1 to 2 ft.	8.00	45.00
Cornus paniculata, 1 to 2 ft.	6.00	50.00
Fagus americana, 6 to 12 ins.	5.00	40.00
Fagus americana, 1 to 2 ft.	7.00	60.00
Ilex verticillata, 1 to 2 ft.	5.00	40.00
Prunus virginiana, 1 to 2 ft.	6.00	50.00
Quercus rubra, 6 to 12 ins.	5.00	40.00
Rhus typhina, 1 to 2 ft.	5.00	40.00
Syringa vulgaris, 1 to 2 ft.	6.00	50.00
Viburnum cassinoides, 1 to 2 ft.	6.00	50.00
Viburnum dentatum, 1 to 2 ft.	6.00	50.00
Viburnum lentago, 1 to 2 ft.	6.00	50.00
Tsuga canadensis, 4 to 8-in. sdigs.	4.00	30.00
Tsuga canadensis, 8 to 12-in. sdigs.	5.00	40.00
Tsuga canadensis, 4 to 8-in. tr.	20.00	180.00

This stock is all first-quality northern-grown collected seedlings, except as noted.

**ISAAC LANGLEY WILLIAMS**  
P.O. Box 352 Exeter, N. H.

## ACER PLATANOIDES— Norway Maples

6 to 8 ft., trans., \$45.00 per 100. 6 to 8 ft., ¾ to 1-in. cal., whips, \$75.00 per 100. 8 to 10 ft., ¾ to 1-in. cal., well branched, \$10.00 per 10; \$85.00 per 100. 8 to 10 ft., 1 to 1¼-in. cal., well branched, \$12.50 per 10; \$100.00 per 100.

1¼ to 1½-in. cal. (in the ground), \$1.50 each, plus 25¢ dug bare root. 1½ to 1¾-in. cal. (in the ground), \$2.00 each, plus 25¢ dug bare root. 1¾ to 2-in. cal. (in the ground), \$2.25 each, plus 40¢ dug bare root.

**STATE ROAD NURSERY**  
State and Sproul Rds.  
Route 1, Media, Pa.

Wholesale growers of  
**SMALL FRUIT PLANTS**  
Grapes, Currants and Raspberries—  
our specialty.  
Hydrangea P. G.

**FOSTER NURSERY CO., INC.**  
69 Orchard St. Fredonia, N. Y.



## EVERGREENS SPECIMEN STOCK

For Spring Shipment

Here are just a few selected from  
our big assortment.

### JUNIPERS

	Per 100
Chinensis femina, 5 to 6 ft.	\$500.00
Chinensis femina, 4 to 5 ft.	400.00
Excelsa stricta, 3 to 4 ft.	400.00
Excelsa stricta, 2 1/2 to 3 ft.	300.00
Excelsa stricta, 2 to 2 1/2 ft.	240.00
Hibernica, 5 to 6 ft.	250.00
Hibernica, 4 to 5 ft.	215.00
Hibernica, 3 to 4 ft.	185.00
Japonica, 3 1/2 to 4 ft.	375.00
Japonica, 3 to 3 1/2 ft.	325.00
Japonica, 2 1/2 to 3 ft.	275.00
Scopulorum, Chandler's, 5 to 6 ft.	550.00
Scopulorum, Chandler's, 4 to 5 ft.	450.00
Tamariscifolia, 2 1/2 to 3 ft.	325.00
Tamariscifolia, 2 to 2 1/2 ft.	275.00
Virginalis, dark green, 4 to 5 ft.	500.00
Virginalis, dark green, 3 1/2 to 4 ft.	400.00
Virginalis, dark green, 3 to 3 1/2 ft.	325.00
Virginalis, dark green, 2 1/2 to 3 ft.	275.00
Virginalis, light green, 3 to 3 1/2 ft.	325.00
Virginalis, light green, 2 1/2 to 3 ft.	275.00
Virginiana, Blue Rapids, 6 to 7 ft.	700.00
Virginiana, Blue Rapids, 5 to 6 ft.	550.00
Virginiana, Blue Rapids, 4 to 5 ft.	450.00

### THUJA

Orientalis, 5 to 6 ft.	300.00
Orientalis, 4 to 5 ft.	250.00
Orientalis, 3 to 4 ft.	200.00
Excelsa, 5 to 6 ft.	350.00
Excelsa, 4 to 5 ft.	300.00

Send for Complete List.

**WILLIS NURSERY CO.**

Ottawa, Kansas



## RED BARBERRY SEEDLINGS

	Per 100	Per 1000
3 to 6 ins.	\$6.00	\$50.00
6 to 9 ins.	\$8.50	75.00

**FAIRVIEW EVERGREEN NURSERIES**  
Fairview, Pa.

December 4 at Webster Hall, Pittsburgh, include Cliff R. Runyan, superintendent of Spring Grove cemetery, Cincinnati, who will discuss taxus and Kentucky bluegrass, and Professor Victor H. Ries, of Ohio State University, Columbus, who will give an illustrated talk on "Plant Aristocrats." The meeting will begin at 3 p. m.

Entertainment will follow the evening banquet, and President Stanley W. Leonard promises to outdo himself with a red tie and new hat. Members of the Ohio Nurserymen's Association are especially invited. President Leonard says that the association is trying to keep in style by having a hotel strike to contend with, but he believes that all strikes have to end sometime and asks members to watch papers announcing the end of the Pittsburgh strike.

### N. L. N. A. TO MEET.

An open discussion meeting on landscape subjects will be held by members of the National Landscape Nurserymen's Association January 13, preceding the convention of the Illinois State Nurserymen's Association, at the Sherman hotel, Chicago, Ill. Prize-winning plans from the small home grounds designs contest will be displayed.

### OHIO SHORT COURSES.

Because of crowded conditions at Ohio State University, Columbus, the short courses for nurserymen, arborists and landscape gardeners annually sponsored by that institution will be divided into two separate sessions, to be held at the Neil House, Columbus, instead of at the university. The short course for arborists and landscape gardeners will be held January 13 to 15, and that for nurserymen, which will be directed by Dr. L. C. Chadwick, of the department of horticulture and forestry, will be held January 22.

A feature of the fortieth annual convention of the Ohio association, to be held January 23 and 24 at the Neil House, Columbus, will be "Ye Olde Time Dinner," with turkey, ham and all the trimmings, plus a special program of entertainment. Guests are expected to dress appropriately in costumes including overalls, aprons, sunbonnets and straw hats, and a photographer will record the event.

### GARDEN MEET POSTPONED.

Because of the recent hotel strike at Washington, D. C., the national garden conference announced

## DIAL — 6-4321 Richmond, Virginia EVERGREENS

Finished Stock—Car or Truckloads

### ARBORVITAE

	Per 100
1000 Globe, 18 to 24 ins.	\$150.00
1000 Globe, 24 to 30 ins.	200.00
400 Globe, 30 to 36 ins.	275.00
1500 Pyramidal, 18 to 24 ins.	125.00
800 Pyramidal, 24 to 30 ins.	150.00
700 Pyramidal, 30 to 36 ins.	225.00
700 Pyramidal, 3 to 4 ft.	275.00
500 Pyramidal, 4 to 5 ft.	350.00
300 Pyramidal, 5 to 6 ft. and up	
2000 Dark American, 18 to 24 ins.	125.00
1200 Dark American, 2 to 2 1/2 ft.	150.00
500 Dark American, 2 1/2 to 3 ft.	200.00
1500 Dark American, 3 to 4 ft.	300.00
800 Dark American, 4 to 5 ft.	350.00

### JUNIPERS

1000 Irish, 18 to 24 ins.	100.00
500 Irish, 2 to 3 ft.	135.00
500 Irish, 3 to 4 ft.	165.00
1200 Irish, 4 to 5 ft.	225.00
2500 Irish, 5 to 6 ft.	275.00
800 Irish, 6 to 7 ft.	350.00
500 Ashfordi, 3 to 4 ft.	200.00
700 Ashfordi, 4 to 5 ft.	225.00
500 Ashfordi, 5 to 6 ft.	275.00
300 Swedish, 2 to 3 ft.	135.00
800 Swedish, 3 to 4 ft.	200.00
800 Swedish, 4 to 5 ft.	275.00
200 Swedish, 5 to 6 ft.	350.00
1000 Sabina, 18 to 24 ins.	150.00
500 Sabina, 2 to 2 1/2 ft.	185.00
1100 Sabina, 2 1/2 to 3 ft.	225.00
1100 Sabina, 3 to 3 1/2 ft.	300.00
200 Stricta, 18 to 24 ins.	175.00
200 Stricta, 2 to 2 1/2 ft.	225.00
200 Stricta, 2 1/2 to 3 ft.	250.00
600 Stricta, 3 to 4 ft.	325.00
700 Stricta, 4 to 5 ft. and up	
200 Oblong, 2 to 3 ft.	200.00
100 Oblong, 3 to 4 ft.	250.00
400 Tamarix, 18 to 24 ins.	225.00
100 Tamarix, 2 to 3 ft.	300.00
300 English, 18 to 24 ins.	125.00
150 English, 3 to 4 ft.	150.00
150 English, 4 to 5 ft.	200.00
300 English, 6 to 7 ft.	325.00
1200 Pfizers, 18 to 24 ins.	200.00
800 Pfizers, 24 to 30 ins.	250.00
800 Pfizers, 30 to 36 ins.	300.00
1500 Pfizers, 36 to 42 ins.	350.00

**W. T. HOOD & CO.**

 Old Dominion Nurseries  
Richmond, Va.  
DIAL 6-4321

in the November 1 issue of the American Nurseryman has been postponed for five weeks, until Thursday and Friday, December 5 and 6. Those planning to attend are asked to make their hotel reservations promptly.

#### BIG STOCK SHOW RESUMED.

After a wartime lapse of five years, the country's largest agricultural show, the International Livestock Exposition and Horse Show, will be held November 30 to December 7, at the Chicago stockyards, in the International Amphitheater, which for the past four years has been occupied by the army and used for military purposes.

#### CAMELLIA SHOW.

Sponsored by the Sand Hills Garden Club, Augusta, Ga., a camellia show featuring new and named varieties, grown outdoors and under glass, will be held February 15 and 16, at Augusta. The show is open to amateurs and professionals.

#### COVER ILLUSTRATION.

#### Aesculus Hippocastanum.

Aesculus hippocastanum, the common horsechestnut, is a native of the Balkan peninsula, but has become so generally planted in this country that we look on it more or less as a native tree. The horsechestnut is a large tree, often reaching sixty to seventy-five feet in height. As a young to medium age tree it is quite rounded and formal in outline. At maturity it is much higher than broad, with the over-all shape becoming more or less rectangular. The branches are quite coarse, but well clothed with leaves. The twigs bear large terminal buds, which have sticky bud scales, and because of this characteristic can be easily differentiated from the Ohio buckeye, Aesculus glabra. The buds are not, or only very slightly, sticky in the case of the Ohio and yellow buckeyes.

The common horsechestnut has a bold, dark green, palmately compound leaf. The leaflets vary from five to seven, and it is not always possible to distinguish it from the Ohio buckeye, since the buckeye usually bears five leaflets.

The flowers of the horsechestnut are attractive, being about three-quarters of an inch across and borne in large panicles eight to twelve inches long. The white flowers tinged with red appear the latter part of May. While the flowers are showy, they are messy

## ROSES

### They Are Moving Fast Roses Are None Too Plentiful Order Now

We offer subject to prior sale, 2-year field-grown **ROSES** budded on **Japonica Multiflora** understocks.

**SHIPMENTS** start after December 15. We can ship when you want them after that date.

Less than 100 lots, **No. 1, 55c; No. 1½, 45c; No. 2, 35c**

100 lots and over, **No. 1, 50c; No. 1½, 40c; No. 2, 30c**

**TERMS**—Cash with order; no packing charges. Will accept 50 per cent cash with order. Balance C.O.D. plus packing charges. **NOTE**—Order in multiples of ten; we do not break bundles.

Ami Quinard  
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Betty Uprichard  
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Etoile de Hollande  
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Luxembourg  
Margaret McGredy

Pink Radiance  
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Senior  
Syracuse  
Talisman, yellow

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Climbing Briarcliff  
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Climbing Mrs. P. S. duPont

Dr. Van Fleet  
Paul's Scarlet Climber

GROWN RIGHT—GRADED RIGHT—PACKED RIGHT

**OZARKS PLANT FARMS INC.**  
Springfield, Mo.

## The Homestead Nurseries

H. G. Benckhuysen. **BOSKOOP, Holland**

QUALITY STOCK ONLY.

CONIFERS  
PEONIES  
SHRUBS  
PHLOX  
AZALEAS  
RHODODENDRONS  
APPLY FOR PRICES.

### Holland - Grown Nursery Stock

Shrubs and Trees,  
including liners.  
Rhododendrons and Azaleas  
Hardy Perennials  
Peonies

NOVELTIES IN ALL LINES.

Ask for wholesale catalog.

### F. J. Grootendorst & Sons

Boskoop, Holland  
Growers and exporters since 1903.

### BULK & CO., Nurserymen, of BOSKOOP, HOLLAND

Experienced Exporters of Nursery  
Stock since 1914.  
ASK FOR CATALOG

### SPECIMEN TAXUS

Heavy 7-ft. base, 10 to 11 ft. high, \$56.00  
Heavy 5-ft. base, 6 to 6 ft. high, \$28.00

J. FRANKLIN BRADLEY  
Huntington, L. I., N. Y.

### GULDEMOND & CO.

(Boskoop, Holland)

U. S. address

GULDEMOND'S  
Broadway Station,  
Newport, R. I.

Offer subject to prior sale, F.O.B. Holland.

COTONEASTER, 3-yr. transplants.

	Per 100
1500 Adpressa .....	\$ 8.00
400 Ambigua .....	7.00
3000 Applaneta .....	7.00
2000 Bullata .....	7.00
3300 Frigida .....	7.00
500 Horizontalis .....	7.50
250 Hor. Arg. var. ....	18.00
150 Lactea (grafts) .....	12.00
1000 Moupinensis .....	7.00
800 Racemiflora .....	7.00
700 Simonsi .....	7.00
150 Watereri (grafts) .....	12.00

### Old English BOXWOOD

(Wholesale Only)

All slow-grown dense specimens. Red clay soil. Priced by height and spread. 18x12 ins. to 24x22 ins. in unlimited quantities. Also large specimens up to 5 ft. Write for price list.

BOXWOOD GARDENS

Mrs. R. P. Royer High Point, N. C.

and objectionable when they fall on the sidewalk or lawn.

The fruit is spiny, about two and one-half inches across and contains from one to two seeds of a chestnut brown color except for the lighter-colored eye. The falling fruits are also objectionable on lawn and walk areas.

The horsechestnut prefers a moist, deep soil that is fairly rich. It does not do well in hot dry situations. In dry soil or under conditions where the roots are restricted by curb or sidewalks, leaf scorch frequently shows up and the trees will drop a good many leaves during the summer months.

A few common insects and diseases may further detract from the effectiveness of the horsechestnut. The horsechestnut is hardy, and under favorable soil conditions shows a minimum of dead wood. The foliage is so large and produced so abundantly that it is difficult to grow grass underneath these trees. Some thinning out of the branches, cutting in the tips and removal of the lower branches will aid the production of lawn grasses. However, these pruning operations should not be so extensive that they detract from the effectiveness of the tree.

The horsechestnut is easily propagated from seeds sown in the fall as soon as they are ripe, or stored in a cool, moist medium over winter and sown the following spring.

While the horsechestnut has been used rather commonly for a street and lawn tree, it is my opinion that we have much more effective and less objectionable trees. Its flower is its outstanding attraction, but this good feature is offset by other objectionable characteristics. Its best use is as a specimen tree in park areas.

L. C. C.

#### HENRY HICKS HONORED.

In recognition of his achievements toward horticultural progress, Henry Hicks, president of Hicks Nurseries, Inc., Westbury, L. I., N. Y., was awarded a certificate of merit at the eleventh annual meeting of the Long Island Horticultural Society, October 22. Halsey Knapp, director of the Long Island Agricultural and Technical Institute, at Farmingdale, made the presentation.

AS a control for rabbits which eat garden crops, a plot or hedge of soybeans is a recent suggestion. Since the rabbits enjoy soybeans, this helps to keep them away from the other garden plants.

## WE OFFER FOR IMMEDIATE SHIPMENT

		Per 100	Per 1000
10,000	AZALEA CALENDULACEA. Flame Azalea.		
	6 to 12 ins., liners.....	\$ 5.00	\$ 40.00
	12 to 18 ins., with buds.....	9.00	80.00
	18 to 24 ins., with buds.....	12.00	100.00
	18 to 24 ins., 8&B, 3 canes or more with buds.....	150.00	
10,000	ABELIA GRANDIFLORA. Glossy Abelia.		
	6 to 18 ins., 1-yr.....	10.00	90.00
50,000	DEUTZIA PRIDE OF ROCHESTER.		
	1-yr., field run.....	4.00	22.50
25,000	FORSYTHIA FORTUNEI. Golden Bell Forsythia.		
	1-yr., field run.....	4.00	25.00
5,000	HYDRANGEA ARBORESCENS. Smooth Hydrangea.		
	12 to 18 ins., seedlings.....	2.50	17.00
1,000	HYDRANGEA P. G.		
	1-yr., 8 to 18 ins.....	10.00	
100,000	LIGUSTRUM AMURENSE. Amur River North Privet.		
	1-yr., field run.....	4.00	35.00
10,000	LIGUSTRUM IBOLIUM. Ibolium Privet.		
	1-yr., field run.....	4.00	35.00
50,000	LIGUSTRUM OVALIFOLIUM. California Privet.		
	1-yr., field run.....	3.00	17.50
200,000	LIGUSTRUM SINENSE. Amur River South Privet.		
	1-yr. seedlings, field run, 6 to 30 ins.....	2.00	9.00
5,000	LONICERA FRAGRANTISSIMA.		
	1-yr., field run.....	5.00	40.00
5,000	SPIRAEA REEVESIANA. Reeves Spiraea.		
	1-yr., field run.....	4.00	30.00
5,000	SPIRAEA VANHOUTTEI.		
	1-yr., field run.....	5.00	40.00
30,000	SYMPHORICARPOS VULGARIS. Coralberry.		
	1-yr., field run.....	3.00	22.50
10,000	WEIGELA, PINK.		
	1-yr., field run.....	4.00	35.00
2,000	ACER RUBRUM. Red Maple.		
	4 to 5 ft., well br.....	30.00	
50,000	PLATANUS OCCIDENTALIS. Plane Tree.		
	1-yr. seedlings, 6 to 18 ins.....	2.00	9.00
20,000	POPULUS NIGRA. Lombardy Poplar.		
	1-yr., field run, 2 to 5 ft.....	5.00	45.00
25,000	QUERCUS ALBA. White Oak.		
	12 to 24 ins.....	2.50	20.00
25,000	CELASTRUS SCANDENS. American Bittersweet.		
	12 to 24 ins., heavy.....	5.00	35.00

The stock that is listed field run means ungraded. We do not have the time and help to do the grading. This is a bargain for anyone who has the time and help to grade this stock. This is an average grade of field-run stock. There is nothing taken from this; you get just what it says; no more, no less.

### O. H. PERRY NURSERY CO.

Box 545

McMinnville, Tenn.

## CHRISTMAS TREES

2000 Norway and White Spruce  
2 to 6 ft., spaced 5 ft. apart.  
Truck or car loads only.  
Cut or Dig yourself, 75c each.

ANDERSEN'S  
EVERGREEN NURSERIES  
Scottville, Mich.

1-yr. Concord and Niagara  
Grapevines  
1-yr. Peach  
Shade Trees  
Flowering Crab  
White Dogwood  
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WILLOWBEND NURSERY  
Davis Road Perry, O.

Grapevines, Currant Roots,  
Currant Cuttings and Berry Plants.  
Small Fruit Specialists.

WEST HILL NURSERIES  
Fredonia, N. Y. Since 1875

### TSUGA CAROLINIANA

Carolina Hemlock, for Lining Out  
Branched trees, excellent roots, 8 to 12  
ins., \$65.00 per 1000. Packing included.  
Orders booked for fall delivery in 1000  
lots only.  
THE SKIPANO NURSERY CO.,  
Warren, Pa.



## OBITUARY

### Joseph Harvey Gourley.

Dr. Joseph Harvey Gourley, 63, chairman of the department of horticulture and forestry at Ohio State University since 1929, died October 12 in Wooster hospital after having suffered a heart attack two days before.

Dr. Gourley, who received his B. S. and M. S. degrees at Ohio State University and his Ph. D. at the University of Chicago, was also head of the department of horticulture at the Ohio agricultural experiment station, at Wooster, where he made his home.

He was a member of the Rotary Club, the Masons and several fraternities. He had served as president of the American Society of Horticultural Science, the National Apple Institute and the Ohio State Horticultural Society.

Dr. Gourley was the author of numerous textbooks on pomology, fruit production and orchard management.

He is survived by his widow, Mrs. Lucy Gourley, and two daughters, Mrs. Arthur Cruickshank and Mrs. William Newman.

### R. D. Underwood.

R. D. Underwood, president of the Jewell Nursery Co., Lake City, Minn., at the time of its dissolution in 1939, died at Los Angeles, Cal., at the age of 69 years.

Prominent in trade organization work and a man of keen intellectual qualities, he was elected president of the Minnesota State Nurserymen's Association in 1937. Under his direction since 1922, the Jewell Nursery Co., which was founded by his father, J. M. Underwood, and his uncle, Dr. P. A. Jewell, in 1868, grew to be one of the largest wholesale nurseries in the country. He is survived by his son, Julian.

Drought and the depression caused financial difficulties, which wiped out Mr. Underwood's personal fortune as well as the company. After receivership, part of the land and remaining assets of the business were taken over by a new corporation, Jewell Nurseries, Inc., controlled by Bj. Loss.

### Arthur C. Doornbos.

Arthur C. Doornbos, 66, who operated the Hudson Valley Nursery Co., at Green Haven, N. Y., died October 20 at his home. Born and educated at New York city, he had resided at Green Haven for several

years, where he had incorporated the Hudson Valley Nurseries & Construction Co. in 1940. He was a member of the Masons. His widow, Mrs. Pearl Doornbos, and a son, Robert J. Doornbos, survive. B. J.

### David S. Herr.

David S. Herr, proprietor of the Lancaster County Nurseries, Lancaster, Pa., died October 26. He was a charter member of the Pennsylvania Nurserymen's Association and a member of the American Association of Nurserymen.

### Otto Matzinger.

Otto Matzinger, 62, owner of Highland Park Nursery, Sterling, Ill., for thirty-two years, died at the Sterling Public hospital October 25. He had been in failing health the past year.

Mr. Matzinger was born in Switzerland and came to this country as a young man. In Switzerland he learned the nursery trade, which he followed throughout his lifetime. He

married Minna Heinrich in 1911, at Emerson, Ill.

Since 1914, Mr. and Mrs. Matzinger had operated the Highland Park Nursery until a short time ago, when they sold their business to their nephews, Walter Gantzert and his brother. Mr. Matzinger is survived by his widow, three brothers and two sisters. Preceding Mr. Matzinger in death were a twin son and daughter, in infancy, and a daughter who died last year.

### Mason E. Hyde.

Mason E. Hyde, proprietor of Gothenburg Nurseries, Gothenburg, Neb., died at his home October 19. He was 60 years old.

A former state legislator, Mr. Hyde served for many years as a member

## VIBURNUM BURKWOODI

New—Fragrant—Hardy  
Pinkish-white flowers in May  
Heavy pot-grown stock for lining out. Spring 1947 delivery.

Per 100 Per 1000  
2 1/2-in. pots ..... \$35.00 \$300.00

F.O.B. Dayton, Ohio.

No charge for packing if check accompanies order.

Write for new trade list.

THE SIEBENTHALER COMPANY  
Dayton 5, Ohio

## LAKE'S SHENANDOAH NURSERIES

Shenandoah, Iowa

Wholesale growers of  
a fine assortment of

## GENERAL NURSERY STOCK

Your inquiries will be appreciated.

## HORTICULTURAL REALTY Co.

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Realtors to the Floral Trade

## GREENHOUSE PROPERTIES FLOWER SHOPS, NURSERIES

List your property with us  
for prompt results.

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## WE OFFER FOR 1946

our usual line of

SHRUBS EVERGREENS  
FOREST AND SHADE TREES  
VINES AND CREEPERS

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## FOREST NURSERY CO., INC.

J. B. Boyd, Pres. McMinnville, Tenn.

## VERHALEN NURSERY COMPANY

SCOTTSVILLE, TEXAS

Wholesale Growers

## MACDONALD RHUBARB

Strong Divisions

\$25.00 per 100.

\$200.00 per 1000.

## WILLIS NURSERY COMPANY

Progressive Nurserymen  
Ottawa, Kan.

## BUXUS SEMP. WELLERII

(Weller's Hardy Northern Type)  
Only Boxwood proved hardy in Northern States for Twenty Years.

Ask for our Perennial catalog.

WELLER NURSERIES CO., Inc.  
Leading Perennial Growers  
Holland, Mich.



## CAMELLIAS, AZALEAS and GARDENIAS

Wholesale quantities, lots.

**AZALEAS**, standard varieties such as Fisher's Pink, Pride of Mobile, Pride of Dorking, Elegans: Each Each

	Bare roots 4-in. pots	
6 to 10 inches.....	\$0.30	\$0.50
10 to 15 inches.....	.50	.75

**CAMELLIAS** (Japanicas), such as Chandleri, Elegans, Monarch, Cameo Pink, Pink Perfection:

10 to 18 inches.....	.90	1.25
18 to 24 inches.....	1.25	1.60

**RARE CAMELLIAS**, such as Debutante, Purple Dawn, Gigantea, Kumasaka variegated:

8 to 12 inches.....	1.50	2.00
12 to 18 inches.....	2.25	2.75

**EXTREMELY RARE**, Magnoliaeflora, Lindsay Neill:

8 to 12 inches.....	4.75	5.50
12 to 18 inches.....	7.00	7.75

Check with orders.

## NATIONAL NURSERIES

West Beach, Box 99 Biloxi, Miss.

## NORTHERN-GROWN EVERGREENS

Juniperus Virginiana Hilli, 3½ to 4 ft.

Juniperus Virginiana Hilli, 4 to 5 ft.

Juniperus Pfitzeriana, 2 to 2½ ft.

Juniperus Pfitzeriana, 2½ to 3 ft.

Mugho Pine, 15 to 18 ins.

Mugho Pine, 18 to 24 ins.

Black Hills Spruce, 18 to 24 ins.

Black Hills Spruce, 24 to 30 ins.

Taxus Cuspidata, 18 to 24 ins.

Taxus Cuspidata, 24 to 30 ins.

Also a general line of northern-grown evergreens.

Visitors Welcome!

**BROWN DEER NURSERIES**

Operated by

**HOLTON & HUNKEL CO.**

P. O. Box 1747

Milwaukee, Wis.



## EVERGREENS

Growers of Quality Evergreens  
Lining-out Stock a Specialty  
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**EVERGREEN NURSERY CO.**  
Established 1864 • STURGEON BAY, WIS.



Wholesale growers of the best  
Ornamental Evergreens,  
Deciduous Trees,  
Shrubs and Roses.

Write for our current trade list.

**THE KALLAY BROTHERS CO.**  
Painesville, Ohio

**BURTON'S**  
HEADQUARTERS FOR  
EVERGREEN GRAFTS, TRANSPLANTED  
EVERGREENS, SHRUB LINERS.  
Write!  
RAKE ITEMS YOU DO NOT  
FIND IN MOST LISTS!  
**HILLTOP NURSERIES**  
CASTOWN, OHIO

of the executive board of the Nebraska Grange. He was also a member of the Masons and of the Scottish Rite.

Mr. Hyde established his nursery business and a farm at Gothenburg in 1912 and served as a first sergeant during the first World war. Survivors include his widow, a daughter and two sons, Glenn and Mason, Jr., who were associated with him as Mason E. Hyde & Sons in the operation of the nursery.

## ALABAMA TRADE SURVEY.

Believing that the nursery and florists' industry in Alabama is a larger one than is indicated by present census figures, the officers and executive committee of the Alabama State Nurserymen's and Florists' Association are conducting a survey to obtain a more reasonably accurate estimate of the value of the industry.

Plans were adopted for the survey at a recent conference at Auburn, attended by President Henry Homer Chase, Chase Nursery Co., Chase, other officers and executive committeemen. Tom Dodd, Jr., Tom Dodd Nurseries, Semmes, secretary-treasurer of the group, has sent a report of the conference and a questionnaire to nurserymen and florists in the state.

## EXPRESS RATES RAISED.

Rate increases for the Railway Express Agency were authorized October 30 by the Interstate Commerce Commission to offset increased costs of operation. Specifically, the agency is permitted to:

1. Increase all less-than-carload first-class and commodity rates 20 cents per hundred pounds and related second-class rates 15 cents.

2. Revise graduated charges on shipments under 100 pounds to the basis of the pound rates, plus 50 cents, except that no increase is proposed on daily newspapers, milk and related products and returned empty containers.

3. Increase all minimum charges and all package charges other than first-class and second-class graduated charges by 30 cents.

4. Increase money rates by 20 cents per \$1,000 and all money classification charges by 30 cents and to cancel the emergency charge of 10 cents a shipment authorized by the commission in 1942.

FORMERLY known as Springbrook Nursery, the retail nursery at Kent, Wash., owned by Alfred Wald is now doing business as Scenic Way Nursery.

## HARDWOOD CUTTINGS

We offer the following varieties for delivery after December 15. We cut to 6¼ inches, using well hardened wood from our own cutting blocks. Tied in hundreds. Per 1000

Cornus sibirica .....	\$5.00
Cornus lutea .....	5.00
Cornus paniculata .....	5.00
Cornus amomum .....	5.00
Elder, Cut-leaf .....	5.00
Forsythia intermedia .....	4.00
Forsythia intermedia spectabilis .....	4.00
*Forsythia, Dwarf .....	5.00
Lonicera tatarica rosea .....	5.00
Lonicera bella rosea .....	4.00
Lonicera bella albidula .....	4.00
Lonicera morrowi .....	4.00
Lonicera maackii .....	4.00
*Lonicera zabeli .....	6.00
Hydrangea A.G. .....	6.00
Hydrangea P.G. .....	6.00
Lilac rothomagensis .....	5.00
Philadelphus, Bouquet Blanc .....	5.00
Philadelphus grandiflorus .....	4.00
*Philadelphus virginialis .....	7.00
Physocarpus opulifolius aureus .....	4.00
Physocarpus opulifolius nanus .....	5.00
Privet, Amur North .....	4.00
Privet, Ibota .....	3.00
Privet, Regel's true (hardy strain) .....	4.00
*Privet Lodense .....	6.00
Sorbaria sorbifolia .....	4.00
Spiraea billiardi, pink .....	4.00
Spiraea froebeli .....	4.00
Spiraea, Korean (trichocarpa) .....	4.00
Spiraea thunbergi .....	4.00
Spiraea vanhouttei .....	4.00
Symphoricarpos chenaulti .....	4.00
Viburnum dentatum .....	5.00
Poplar, Lombardy .....	5.00
Willow, Niobe Weeping .....	4.00
Willow, Pussy .....	5.00
Willow, Golden .....	4.00

\* Limit to 1,000 with other varieties.

Packed free. Cash with order please.

## THE SCOTCH GROVE NURSERY

Scotch Grove, Ia.

## TAXUS LINING-OUT STOCK

1 and 2-year pots

Many Varieties.

Juniper pfitzeriana,

18 to 24 ins. and up

Very reasonable in lots of 100.

## WYOMING NURSERIES

C. E. Korn

Cincinnati 15, O.

## 60,000 TAXUS

Pots, transplants and rooted cuttings.

2500 J. Pfitzeriana,

2 to 3 ft. and 3 to 4 ft.

To trucks F.O.B. our nurseries.

**HUMPHREYS LANDSCAPE SERVICE**

Mt. Sterling, Ky.

## LINING-OUT EVERGREENS and AZALEAS

Sturdy Plants.

## DUNLAP NURSERIES

Knoxville 16, Tenn.

**25,000**

Peach trees in leading varieties.

**20,000**

1 and 2-year-old Apple in leading varieties.

★ ★

A general line of **Shade Trees, Evergreens and Shrubs**. We are still booking orders for **Apple and Pear** grafts for Spring shipment.

**EGYPTIAN****Nursery and Landscape Co.**

Farina, Ill. Phone 64

**FOR EARLY BOOKING**

50,000 to 60,000 No. 1 transplanted, **Hall's Japanese Honeysuckle**.

Write us for a special price on the block.

**TARLTON NURSERIES**

E. J. Morton, Mgr.

Route 7, McMinnville, Tenn.

**SURPLUS BOSTON IVY**

Per 100

3-yr., 2 to 3 feet. . . . . **\$35.00**2-yr., 18 to 24 inches. . . . . **30.00**2-yr., 12 to 18 inches. . . . . **20.00**

**ONARGA NURSERY CO., INC.**  
Onarga, Ill.

**RUSSIAN OLIVE SEEDLINGS, 1-yr.**

6 to 12 ins., 12 to 18 ins., 18 to 24 ins.,  
2 to 3 ft., 3 to 4 ft.

**CARAGANA PEA TREE SEEDLINGS**

6 to 12 ins.

Write for prices.

**ROGERS WHOLESALE NURSERIES**

Box 132, Winfield, Kan.

**UNDERSTOCKS**

For immediate delivery.  
About 4000 **JUNIPER SCOPULORUM**,  
8 to 12 ins., 2/16 to 3/16-in. calliper for  
lining or understocks.

**TREADWELL NURSERY CO.**  
Great Falls, Mont.

**ROSEDALE'S OPENS NEW  
BRANCH AT MONROVIA.**

A gala formal opening, with many unusual floral displays and souvenirs of camellia and pyracantha plants, recently marked the opening at Monrovia, Cal., of the fourth retail branch of **Rosedale's Nurseries, Inc.**, a California corporation owned by Harry E. Rosedale, Howard Past and Norman Gray.

The Monrovia branch is a model of up-to-date nursery salesyard and display grounds planning. Acoustical Celotex, fluorescent lighting, infrared heating units and friction-type windows are among the technical developments applied in the construction of the nursery buildings which make the layout one of the most modern in the country. As an innovation in nursery design, redwood louvers have been installed in the lath houses to admit maximum sunlight.

Four units have been erected as the initial phase of the Monrovia development. These include the main building, 30x60 feet; adjoining lath houses extending 250 feet and an attached, glass-enclosed patio; an office building for nursery personnel, and a large garage, which is completely equipped for maintenance and repair of the company's fleet of trucks. Additional buildings, including quarters for the mail-order department and a general warehouse, will be erected later.

All buildings are of frame construction, with redwood exteriors and natural wood interiors. The main sales building has a full glass front and is surmounted by a 42-foot tower, which in turn is topped by a 22-foot flagpole. The nursery's name, set in cutout letters on the tower, and the ornamental doors leading to various sections of the layout, were especially designed to carry out a horticultural motif.

The buildings are beautifully landscaped, and much of the plan for the informal gardens, the flagstone planting beds and the intricate system of connecting walks is the work of Mr. Past. The Monrovia site is five acres in area. Parking space for an almost unlimited number of cars has been provided by a 40-foot strip running the entire 800-foot length of the property, and four separate entrances give easy access to the display areas.

The partnership of Rosedale's Nurseries, with Harry E. Rosedale, Howard Past and Norman Gray as owners, was formed in 1943, and articles of incorporation were filed in 1945. Branch nurseries have been established at Los Angeles, Glendale and Compton. The main office of the

**PLUM PIT'S**

2,000 pounds washed and floated **Wild Plum Pits**; no bad ones. **80c** per pound.

**Sugar Maple** in lots of 100 or carload lots, 6 to 8 ft., 8 to 10 ft. and 10 to 12 ft. Write for prices.

**CASHMAN NURSERIES, INC.**  
Owatonna, Minn.

**WRITE US ABOUT—**

- Evergreen Liners
- Shade Trees
- Specimen Evergreens
- Flowering Shrubs
- General Assortment of Stock.

**SHERMAN NURSERY CO.**  
Charles City, Iowa

**ORNAMENTALS****TREES SHRUBS  
EVERGREENS**

Wholesale growers of a  
general assortment for  
the best landscape plantings.

**BRYANT'S NURSERIES**  
Princeton, Illinois

**QUALITY ROSEBUSHES****2-yr. Budded Stock**

Good standard and patented varieties. Individual packing for counter trade if desired. Bundles of ten or carloads.

Write for our wholesale price list.

**M. OLIVER FLOWER FARMS**  
Box 86 Tyler, Texas

**LINERS WANTED**

2000 each; *Cornus florida rubra*, *Magnolia soulangiana* and other varieties, **Pittzer Juniper**. Also need **Juniper grafts** and seedlings, all in ready for the field sizes, for spring delivery.

**H. B. HARTLINE FARM**  
Makanda, Ill.

## C. M. Hobbs & Sons, Inc.

BRIDGEPORT INDIANA

Established 1875

FRUIT TREES

GINKGO

NORWAY MAPLE

SOFT MAPLE

SWEET GUM

THURLOW WILLOW

WELL GROWN EVER-  
GREENS, in variety.

## Maloney's

Offer for Fall and Spring delivery 2-year Standard Apple, Sweet and Sour Cherry and Standard Pear. Also 2-year Shrubs, bushy, well rooted, twice transplanted. Write for wholesale circular.



**MALONEY BROS.  
NURSERY CO., INC.**  
Danville, New York

## RED RHUBARB

Per 100  
McDONALD ..... \$20.00  
CANADA RED ..... 40.00

All good size, No. 1 divisions. Cash with order—packing free. Write for prices on larger quantities.

**KEELER'S GARDENS**  
Sioux Falls, So. Dak.

## Northern-grown Stock

Send  
for  
Price  
List.

**J. V. BAILEY NURSERIES**  
St. Paul 6, Minn.

Book orders early.  
**SPECIMEN EVERGREENS**  
**SNEED NURSERY COMPANY**

P. O. Box 790

Oklahoma City, Okla.

corporation will be in the new office unit of the Monrovia branch, and Hugh Hadley, of Monrovia, will be business manager.

Dealer sales will be restricted hereafter to the Monrovia Nursery Co., at Monrovia, owned by Harry E. Rosedale and organized by him after a flood in 1938 destroyed the original Rosedale's Nursery. Growing grounds for both Rosedale's Nurseries, Inc., and the Monrovia Nursery Co. will continue to be maintained at Monrovia and Arcadia.

### SUPERIOR CALIFORNIA CHAPTER OFFICERS.

At the monthly meeting of the Superior chapter of the California Association of Nurserymen, held October 7 at the Alhambra restaurant, Sacramento, the following officers were elected: President, Walter Tecklenberg, Teck's Landscape Nursery & Floral Shop, Lodi; vice-president, Eugene Armstrong, Capital Nursery Co., Sacramento, and secretary-treasurer, Donald C. Wiese, Donner Nursery, Sacramento.

Elmer Marz, F. Lagomarsino & Sons, Sacramento, will serve as state director, and chapter directors will be Bert Bond, Central Valley Seed Co., Sacramento, and Charles Eifferle, Charles Nursery, Sacramento.

The chapter serves the northern area of California, known as superior California, and has forty nursery-owner members.

D. C. Wiese, Sec'y.

### CALIFORNIA NOTES.

Dr. T. I. Storer advises nursery men who have killed out ground squirrels also to destroy the burrows, for often squirrels from near-by areas move into the vacated burrows. Dr. Storer is zoologist at the University of California, at Davis, and is in charge of rodent control research.

A new source of fertilizer is tung meal, which is a by-product of tung oil. The meal is to be had either loose or pressed into cakes. Tests show an average of over four per cent nitrogen, over one per cent phosphoric acid and about one and one-half per cent potash. Tung meal will not go into the stock feed trade, as have cotton and other meals, for it has a disagreeable taste.

The Howard Rose Co., Hemet, recently exhibited a banana squash which was grown on its ranch. The squash weighed 112 pounds and was fifty-three inches long.

The fruit and nut acreage is reported by the California crop reporting service (a government agency) at



Growers of a complete  
line of deciduous and  
coniferous species.

**JEWELL NURSERIES, INC.**  
Lake City, Minn.

PIN OAKS in all sizes up to  
5-inch caliper.

SPECIMEN CEDARS up to 10  
feet in height.

AUSTRIAN and WESTERN  
YELLOW PINES in 6 to 8 and 8  
to 10-foot grades.

General assortment of Shrubs  
in heavy 3 to 4 and 4 to 5-foot  
grades.

**PRAIRIE GARDENS NURSERY CO.**  
McPherson, Kan.

**Boyd**  
NURSERY COMPANY

McMinnville, Tenn.

ORNAMENTAL SHRUBS  
SHADE TREES, VINES  
FOREST TREE SEEDLINGS  
LINING-OUT STOCKS

### WE OFFER...

Our General Line of  
**SMALL FRUIT PLANTS**

Let us quote on your  
requirements.

**L. J. RAMBO'S WHOLESALE NURSERIES**  
Bridgman, Michigan



## PEACH STILL AVAILABLE

We still have a few thousand **Peach** in **Elberta**, **Red Haven**, **Hale Haven**, **J. H. Hale**, **Ea. Elberta**, **Ea. Hiley** and **Golden Jubilee**. A few thousand **One-year Apple**. Write for our wholesale list.

### GROW CONTRACTS

We are still accepting contracts for 1947 delivery: **June-budded Peach**, **Plum**, **Apricots**, **Combination Peach**, **Plum**, **Apricots** and **Apple**, also **One-year Peach**, **Plum** and **Apricots**, for 1948 delivery.

**J. C. SISK NURSERY CO.**  
Winchester, Tenn.

**RED LAKE CURRANTS**  
**RED RASPBERRIES**  
**Hansen's BUSH CHERRY**  
**PARADISE ASPARAGUS**

**ANDREWS NURSERY CO.**  
**FARIBAULT, MINN.**

## To The Wholesale Trade

We have the following items to offer:

**Apple**, 1 and 2-year-old  
**June-budded Peach**  
**Peach**, 2-year  
**Pear**, 1 and 2-year-old  
**Plums**, **Apricots** and **Cherries**

We welcome inquiries, and let us furnish your needs.

**FRAZIER NURSERY CO.**  
Box 1 Smithville, Tenn.

## FRUIT TREES AND SMALL FRUITS

### HARRISON BROTHERS NURSERIES

G. Hale Harrison, General Manager  
BERLIN, MARYLAND

## We wish to purchase...

**Evergreens**, **Fruit Trees**,  
**Shrubs**, etc.

Send your surplus list to  
**THE PONTIAC NURSERY CO.**, Romeo, Mich.

1,500,426 acres. The state led all other states in fruit and nut production in 1946.

Frozen fruit production in California has increased nearly thirtyfold in the past five years to a record in 1946 of 166,531,761 pounds. Apricots and peaches are the leaders followed by apples. Vegetable processing increased only eightfold to a total of about 50,000,000 pounds.

Young citrus replants should be carefully watched at this time of the year for gummosis. All affected parts should be cut out and exposed surfaces should be painted with a good disinfectant. These areas should be left exposed to the air until healing is completed.

The state department of agriculture reports that it intercepted live Japanese beetles in the suitcase of a traveler entering California from Maryland. If this pest should become established in the state, it would be a tremendous blow to the nursery industry.

In general, the shortage of both citrus and avocado nursery trees is expected to be less severe than in the past few years. However, there is no indication of a great surplus of good trees, and the fruit industry is advising its members to order early.

Gordon Courtright recently entertained with an open house at his new home, at Berkeley. Mr. Courtright operates the East Bay Nursery.

The Point Loma Nursery, at San Diego, is now settled, after being moved from its old location during the war by the navy. At the new place there is a well built garden supply salesroom, which is stocked with a good selection of seeds, sprays, tools and other needs of the home gardener. The storehouse adjoining the salesroom is well arranged and large enough for immediate needs at least. There are also about two acres of land, well covered with plants for the retail trade in 1-gallon and 5-gallon containers. On looking at the plants one is impressed by the orderliness of the arrangement and the excellent condition of all of the stock. Although on a main road just outside of "Old Town" (the site of the original San Diego) and not protected at night, there is no fence around the nursery and the owner, Paul Kleinsorge, reports that there has never been a theft of plants.

Williams & MacPherson, Subtropical Nursery, Encinitas, is specializing in subtropical plants which are extensively used by home gardeners in that area. Mr. MacPherson is busy serving on a local improvement committee which plans extensive deep-water improvements for the harbor

## NURSERYMEN

Buy your **2-yr. Apple** now. 5 per cent discount for cash with order, or 25 per cent down and balance C.O.D.

Per 100  
5 to 6 ft., well branched . . \$40.00  
4 to 5 ft., well branched . . 30.00  
3 to 4 ft., mostly branched 22.00  
2 to 3 ft., mostly branched 18.00

Varieties: **Yellow Del.**, **Red Del.**, **Grimes**, **King David**, **Black Twig**, **Stayman**, **Trans.**, **Maiden Blush** and **Ada Red**. Write for prices on all other kinds of nursery stock.

**ROLLERS WHOLESALE NURSERY**  
Rogers, Ark.

## SMALL FRUIT PLANTS and VEGETABLE ROOTS

We grow for the wholesale trade only.

**KRIEGER'S WHOLESALE NURSERY**  
BRIDGMAN, MICH.

## BLUEBERRY PLANTS

are our specialty  
**1, 2 and 3-yr.-old**  
*Special prices in  
Wholesale Lots for  
Fall Delivery*

Write for prices to the

**AIRLINE BLUEBERRY FARM**  
606 Butterfield Drive  
EAST LANSING, MICH.

## 1946 • SPRING • 1947

Send us your want list.

**Apple**, **Peach**, **Plum**, **Apricot**,  
**Grapes**, **June-bud Peach**.

**Shade Trees** and **Ornamentals**.

**Commercial Nursery Co.**  
DECHERD, TENN.

**VEGETABLE PLANT**  
**HEADQUARTERS FOR THE NATION**  
Onion, Cabbage, Tomato, Pepper, Sweet Potato.  
We ship direct to you or your customer.  
Complete satisfaction guaranteed.  
Write for complete information and prices.  
**W. G. FARRIER PLANT CO.**  
Box 195 Omaha, Texas



to bring ocean-going shipping to the city.

Arthur DeHaan, of DeHaan's Nursery, Encinitas, recently so badly wrecked his brand-new Packard that it had to be sold for junk. Mr. DeHaan, who was alone in the car at the time of accident, walked away and suffered no apparent injury.

J. B. Christian, of the Burr-Christian Nursery, Hayward, spent a week fishing near Pinecrest.

The bowling team of the Peters & Wilson Nursery, Millbrae, holds first place in the Burlingame Merchants' Handicap League. W. B. B.

### WASHINGTON NEWS.

Harold Hopkins, of Hopkins Nursery, Bothell, Wash., is changing the highway entrance to his nursery to accommodate customer parking. To take care of increased business a large packing and storage building, which will house an office, has been constructed. The construction is almost entirely of fireproof materials. Adjoining this building, a greenhouse has been erected for the propagation and growing of young nursery stock. Constructed by L. N. Roberson Co., Seattle, the greenhouse is heated entirely by electricity.

Broadway-Edison Technical School, Seattle, is sponsoring a series of evening classes of interest to nurserymen. Included in the subjects offered are plant identification and plant propagation. A third course, and one which should be especially useful to nursery salesmen and landscape gardeners, is being planned. This will be a course in the study of plant materials useful in plantings for home grounds and in the design of small gardens. These classes are being held at the arboretum.

England seems to have been a popular place for local nurserymen the past summer. Frank Bonnell, of Bonnell's Nurseries; Clark Malmo, of C. Malmo Nursery, and Dr. John Hanley, director of the University of Washington arboretum, at Seattle, each have made a trip to England to study new garden and nursery materials.

R. A. Pearce, president of State Flower Nursery, Inc., Bothell, announces that John Van Dyke has joined the firm. Mr. Van Dyke is a trained landscape architect with a wide horticultural background. He will be engaged in management and administration. The organization is now incorporated under the name of State Flower Nursery, Inc., and specializes in azaleas, rhododendrons and camellias. Mr. Van Dyke reports

## STRAWBERRIES — CANEBERRIES

To the wholesale trade we offer the following varieties of small fruit plants for delivery after October 15. All prices F.O.B. shipping point.

### STRAWBERRIES

STANDARD VARIETIES	Per 100	Per 250	Per 1000
Blakemore, Dunlap, Aroma.....	\$1.25	\$ 2.50	\$ 7.50
Klondike, Missionary .....	1.40	2.75	8.50
Klonmore, Premier, Fairfax, Catskill.....	1.50	3.00	9.50
Tennessee Supreme, Tennessee Shipper.....	1.60	3.10	10.00

### EVERBEARING VARIETIES

Progressive .....	1.75	3.40	12.00
Gem, Mastodon, Evermore.....	2.50	5.50	17.00
Gemzata .....	4.00	9.00	25.00
Streamliner .....	6.50	12.00	40.00

### CANEBERRIES

Youngberry .....	6.00	14.00	50.00
Regular Boysenberry .....	6.50	15.00	55.00
Thornless Boysenberry .....	7.50	16.00	60.00

Cold storage available for late spring orders.

Packing-out service available direct to your customers under your tags. No charge made for packing or packages.

### LEAMON STRAWBERRY NURSERY

Route 1

Ooltewah, Tenn.

Located in the highlands of east Tennessee.

Mention The American Nurseryman when you write.

## APPLE and PEAR SEEDLINGS

### TWO-YEAR APPLE TREES ONE-YEAR PEACH TREES

REMEMBER! We are centrally located on Four Railroads and many Truck Lines and can get stock to you when wanted. In these days of car shortages, strikes, etc., this is worth careful consideration.

**L. R. TAYLOR & SONS, Topeka, Kan.**

### STRAWBERRY PLANTS

Large supply of strong low-grown plants. Prompt service.

EVERBEARING VARIETIES.	Per 1000
Streamliner .....	\$25.00
Brunes Marvel .....	15.00
Gem .....	12.00
Evermore (Minn. 1166) .....	16.00
Gemzata .....	25.00

STANDARD VARIETIES.  
Robinson, Dunlap and Blakemore. 8.00

DOLLAR NURSERY, Bloomfield, Ia.

### STRAWBERRY PLANTS

Twenty varieties.

Let me ship **STRAWBERRY PLANTS** direct to your customers. Write for details.

**ANNA STRAWBERRY NURSERY**

F. G. Anderson, Prop.  
Anna, Ill.

### RHUBARB

Chipman's Canada Red

25,000 No. 1. divisions

**BASS NURSERY**  
Chadron, Neb.

### APPLE SCIONS

Let us have your want list. We have a good supply of leading varieties.

**GOLDEN EAGLE NURSERY**  
Golden Eagle, Ill.

### CHARLES SIZEMORE Traffic Manager

319½ Georgia St., Louisiana, Mo.

Loss and damage claims against railroad and express companies collected.

Freight bills audited.

Past due notes and accounts collected.

Well known to the nurserymen of the country.

Reference: Bank of Louisiana.

business is excellent, this being the peak of the shipping period, with carload lots leaving the nursery daily.

An early meeting of the Western Washington Horticultural Society has been promised by Dr. Charles Schwartz, of the experiment station at Puyallup. The 2-day program will be divided into special sessions devoted to the discussion of major problems, especially those of fruits, vegetables, bulbs and other ornamental crops. The meeting will be held at Puyallup December 17 and 18, with the annual banquet on the evening of December 17. C. W.

#### JOINS SWIFT STAFF.

The appointment of Murray C. McNeil, past president of the Southern California Horticultural Institute, as manager of the new Swift & Co. plant food factory at Hayward, Cal., is announced by C. T. Prindeville, vice-president.

The Hayward factory, scheduled to begin operations by January 1, will employ up to fifty men to manufacture chemically produced plant foods.

Mr. McNeil has been with Swift & Co. since 1934 and has served as assistant manager at Los Angeles since 1941. For the past five years he has traveled important agricultural areas of California and Arizona to obtain an intimate knowledge of crops and soils.

A widely known landscape architect, Mr. McNeil has lectured before numerous garden clubs of central and southern California in recent years. From 1919 to 1934, while with Armstrong Nurseries, Ontario, Cal., he traveled the United States distributing nursery stock. In 1925 he became a flyer and in 1926 delivered the first nursery stock to be shipped by air, from Ontario to San Simeon, Cal. He later received national merchandising recognition by transforming waste space atop a Los Angeles department store into a profitable retail nursery.

The McNeils have four sons, Murray, Jr.; Hadlow, John and Edward. Murray, 17, is student body president at Wilson high school, Los Angeles.

JAMES A. CHIMO has opened the Chimo & Oliver Garden Shop & Nursery, 3204 Van Ness boulevard, Fresno, Cal. He is handling seeds and bulbs, cut flowers, tools and garden accessories. A greenhouse is expected to be completed soon. The shop is on a 4-acre site at Shields avenue and Van Ness boulevard.

## FRUIT TREE SEEDLINGS

As specialists in this line, with 30 years' experience, we can give you that satisfaction you wish. You know that good stock year after year doesn't just "happen." It is the result of fine, mellow ground kept to a proper state of fertility, moisture under control, both in the growing and ripening season, and intelligent and experienced care in every phase of growing, digging and packing.

Let us quote on your **apple** and **pear** needs.

#### CHINESE ELM SEEDLINGS.

Another of our specialties. Our seeds were gathered from trees isolated from other types of elms.

#### NORWAY MAPLE SEEDLINGS.

Supply quite limited, but quality is "tops."

C. L. freight rates to some near-by distributing point.

## WASHINGTON NURSERIES

Toppenish, Wash.

## RICH & SONS NURSERY

Offers

a general line of Nursery Stock.

Write for catalog.

Retail catalogs in color available to the trade at cost.

40-page general catalog, 30c

32-page Bulb and Rose Catalog, 25c

## RICH & SONS NURSERY

Rte. 4, Hillsboro, Ore.

## DEL RANCHO FORTUNA

### FRUIT TREES and GRAPEVINES

P. O. Box 548  
McFARLAND, CAL.

#### NOTICE

Limited production makes it impossible to book orders for new customers.

#### HOWARD ROSE COMPANY

Hemet, California

## BALED SHINGLE TOW

(CEDAR SHAVINGS)

### WM. A. JOHNSTON

408 Postal Bldg., Portland 4, Ore.

#### PRONOUNCING DICTIONARY of Plant Names

64 pages, 3000 names, 25c per copy  
American Nurseryman Chicago

## PACIFIC COAST NURSERY

2244 N. Skidmore Ct.

Portland 11, Ore.

Pioneer seedling growers on the Pacific Coast since 1914.

Specializing in fruit tree seedlings. **Angers Rooted Quince Cuttings, Chinese Elm Seedlings, Norway Maple Seedlings and English Privet.**

We also have **Norway Maples**, 3-yr. branched, and **Norway Whips** and **E. W. Birch**, 3 yrs. old, well branched.

We aim to please with quality stock.

John Holmason & Sons, Props.



## SHINGLE TOW

(Baled Cedar Shavings)

### MONARCH SHINGLE CO.

P.O. Box 37 North Portland Ore

Please mention the **American Nurseryman** when writing advertisers

RECENTLY discharged from the army as a sergeant after three years of service, Henry G. Sciulli has opened the American Nursery, at 5838 San Fernando road, Burbank, Cal.

ZAREH KIRAGH, a graduate landscape architect who has studied nursery work at Santa Barbara college of the University of California, has opened Encino Nurseries & Landscape Studios, at 15933 Ventura boulevard, Encino, Cal.

PROPRIETORS of the Bungalow Nursery & Flower Shop, Daly City, Cal., for the past twenty-eight years, Mr. and Mrs. Henry Werle have sold the business to their nephew and niece, Mr. and Mrs. Walter Nessler, and are retiring to live at Los Altos, Cal.

W. M. SCHWAB, of the Buckley Nursery Co., Buckley, Wash., addressed a recent meeting of the Men's Garden Club of Snohomish county, at Everett, Wash. Mr. Schwab supplemented his talk with motion pictures of bulbs, shrubbery and formal and informal gardens.

RICHARD P. RESSEL, Mulino, Ore., specialist in ornamental evergreens, has completed the first of three modern greenhouses he plans to have constructed. The finished building is 28x100 feet and is tempered with hot-water heat from an automatic oil-heating system.

BILL STEINHAUS, who has operated the Heatherhills Nursery, Medina, Wash., for fifteen years, is establishing a bulb farm near Elma, Wash. Associated with him in the venture is his mother, Mrs. Inez Steinhaus, and her sister, of Long Beach, Cal.

VETERANS of the two world wars, R. A. Weber and his son, L. A. Weber, have erected five greenhouses and made nursery plantings on two and one-half acres near Oak Grove, Ore. Both have been physically disabled as results of their war duties, Mr. Weber, Sr., having been gassed while in Europe and the son having contracted malaria while serving with the Forty-first division in the Pacific area.

RETURNED veteran Glenn E. Stires has opened his own business, the Aloha Nursery, at 2030 North Garey avenue, Pomona, Cal. Before entering the service he worked on landscaping projects in southern California under the direction of Landscape Architect Charles G. Adams and was with contractors in Hawaii when the Japanese attacked. He enlisted in the Seabees and served two years in Hawaii and on Saipan.

## PORTLAND WHOLESALE NURSERY CO.

306 S. E. 12th AVENUE Avery H. Steinmetz PORTLAND, OREGON

### Quality Stock

CONIFERS AND BROAD-LEAVED  
EVERGREENS  
SHADE AND FLOWERING TREES  
FRUIT TREE SEEDLINGS  
FRUIT TREES  
DECIDUOUS SHRUBS  
VINES AND BULBS  
PORTLAND ROSES

Very sorry, no catalog this fall.  
We still have a limited supply of  
Norway and Schwedleri Maple  
Whips, 6 to 7, 7 to 8, 8 to 9-ft. grades.  
Also Pin. Red. Scarlet Oak, 7 to 8,  
8 to 9, 9 to 10 ft.

*Write for our Catalog*

### A. MCGILL & SON

FAIRVIEW, OREGON

*Wholesale Only*

#### GOOD WESTERN-GROWN NURSERY STOCK

Fruit Tree Seedlings  
Flowering Ornamental Trees  
Shade Trees

Grown right and packed right.  
Combination carloads to Eastern  
distributing points will save you  
on freight.

### MILTON NURSERY CO.

MILTON - Since 1878 - OREGON

Oregon and Washington-Grown Apple  
and Pear Seedlings, Angers Quince  
Rooted Cuttings.

Chinese Elm Seedlings and Trans-  
planted Specimen Trees.

Our Sales have been Heavy, but we  
have other Items in Surplus.

Send us Your Want List. Please Use  
Your Letterhead.

Combination Carloads to Eastern distrib-  
uting points at minimum freight cost.

### DOTY & DOERNER, Inc.

6691 S. W. Capitol Highway

Portland 1, Oregon

*Wholesale Growers  
of  
General Nursery Stocks*

We still have quite a number of  
Camellias, Rhododendrons, Speci-  
men Boxwood, Nandinas and Green  
Aucubas. Will try and fill your  
needs on other stock in smaller  
quantities.

F. A. DOERFLER & SONS

150 N. Lancaster Dr. Salem, Ore.  
Phone: 21175 Salem



### SHERWOOD NURSERY CO.

EVERGREENS - Propagators & Growers  
141 S. E. 65th Ave., PORTLAND 16, ORE.

**AS ALWAYS—  
OREGON'S BEST SOURCE  
of GOOD ROSES**

Limited crops reserved for  
established customers.

**PETERSON & DERING**

*Wholesale Rose Growers  
Scappoose, Oregon*



# CLASSIFIED ADS

Five lines, \$1.00,  
each additional line 20 cents,  
per insertion.

## BERRY PLANTS

SMALL FRUIT PLANTS	Per 100	Per 1000
Boysenberry (thornless).....	\$5.50	\$50.00
Boysenberry (regular).....	5.00	40.00
Youngberry (regular).....	4.00	30.00
Cumberland Raspberry.....	4.00	30.00
Latham Raspberry.....	5.00	40.00
St. Regis Raspberry.....	5.00	40.00
Blakemore Strawberry.....	6.00	
Aroma and Dunlap		
Strawberries.....	8.00	

Write for complete list.  
V. P. BASHAM, Mountainburg, Ark.

**CULTIVATED BLUEBERRY PLANTS.**  
Plant in fall, best time. From \$1,000.00 to \$2,000.00 per acre income for blueberries the past summer. Cultivated blueberries originated in New Jersey, therefore it is the logical state in which to buy these plants. For this fall only: 3-yr., \$60.00 per 100; 2-yr., 6 to 10 ins., \$30.00 per 100; 1-yr., 10 to 15 ins., \$40.00 per 100. 1-yr., plenty fibrous roots, \$20.00 per 100. Ship now.  
WARREN SHINN, Woodbury, N. J.

Pixwell Gooseberries, 2-year, No. 1, 40c each, by 100 or 1000.  
Pixwell Gooseberries, 2-year, No. 2, 25c each, by 100 or 1000.  
Ruddy, Chief, Newburgh and Latham Raspberries, No. 1, \$50.00 per 1000.  
New Minnesota No. 118 strawberry, now named Arrowhead, \$50.00 per 1000.  
10 per cent off for cash with order.  
SCHWAB FRUIT FARM & NURSERY,  
220 N. 5th St., Mankato, Minn.

## CERTIFIED RASPBERRY PLANTS

	Per 100	Per 1000
Indian Summer, No. 1.....	\$6.00	\$60.00
Taylor, No. 1.....	6.00	60.00
Chief, No. 1.....	5.00	40.00
Chief, No. 2.....	3.75	27.50
Sunrise, No. 1.....	5.00	40.00
Sunrise, No. 2.....	3.75	27.50

No charge for boxing.  
BAKER'S NURSERIES, Hoosick Falls, N. Y.

## STRAWBERRY PLANTS

Klondike, Dunlap, Aroma, Blakemore, Missionary, 100, \$1.50; 250, \$2.75; 500, \$4.75; 1000, \$8.00.

Tennessee Supreme, Tennessee Shipper 100, \$1.50; 250, \$3.00; 500, \$5.25; 1000, \$9.00.  
Progressive or Gem Everbearing, 100, \$1.75; 250, \$3.50; 500, \$6.20; 1000, \$11.00.  
Shipped prepaid.

HYSSINGER NURSERIES, Cleveland, Tenn.

## CERTIFIED RASPBERRY PLANTS

	Per 100	Per 1000
Latham No. 1.....	\$4.50	\$40.00
Latham No. 2.....	3.50	30.00
Indian Summer No. 1.....	5.00	45.00

Exceptionally clean strong stock.  
Write for our new Gladolus price list.

WHITEHALL FLORAL & NURSERY CO.  
Box 205 Whitehall, Wis.

**STRAWBERRY PLANTS, CERTIFIED—**  
3,000,000 Blakemore (yellow-resistant), Aroma, Klondike, Tenn. Supreme, Gem, Evermore and New Streamliner. Grown on new land. Write for prices for spring delivery.  
ROMINES PLANT FARM, Dayton, Tenn.

## SUNRISE RASPBERRY PLANTS.

A-1 stock. Ship now. \$38.00 per 1000; \$4.50 per 100. No better stock anywhere. Carry Raspberry certificate.

WARREN SHINN, Woodbury, N. J.

**BERRIES—Strong healthy Eldorado and Lucretia Dewberry, prolific bearers of luscious fruit. No. 1, 2-yr. plants, \$3.00 per 100; \$25.00 per 2000.**

MRS. CHARLIE ROBINSON, Greenville, Ga.

## BULBS

**TULIPS—All the best and latest novelties in many varieties. Top-size bulbs, 12 cm. and up. Ideal Darwin, Darwin, New Giant Breeder, Cottage, Single Early, Double Early, Multi-flowered, Rembrandt American Flag, Lily-flowered, Triumph, Parrot, Chameleon, Chinese Lantern and botanical.**  
Send for our free catalog, beautifully illustrated in color, with wholesale discount. Free on request.

CARROLL GARDENS, Westminster, Md.

**BULBS—Best variety, healthy, clean, blooming size. Daffodils, Narcissus and Jonquills. Mixed \$25.00 per 1000; \$40.00 per 2000. Sample, \$3.00 per 100.**

MRS. CHARLIE ROBINSON, Greenville, Ga.

**200,000 GLADIOLUS YELLOW EMPEROR.**  
Nos. 1, 2 and 3. High crowned, never been cut. Will sell right for fall delivery.

LYON-AUSTIN FLOWERS, INC.  
215 W. Washington St., Suffolk, Va.

## IMPORTED HOLLAND-GROWN TULIP BULBS.

Look at this! Genuine Holland-grown tulip bulbs, 11 to 12 cm., prepaid to you at \$4.00 per 100 if you order 250 of a kind. 10 choice varieties to choose from.

\*Means good for forcing.

Pride of Haarlem, rose-red, suffused with purple.

\*Korniflorus, brilliant carmine-red.

\*Bartington, beautiful bright red.

\*Watson, fine pure deep yellow.

\*Princess Elizabeth, soft lilac-rose.

La Tulipe Noire, "The Black Tulip."

The Bishop, large, violet-purple.

\*Carrara, white.

\*Campfire, blood-red.

Special: ADVANCE, brilliant scarlet, flushed cerise. Very, very showy. Biggest size bulbs, \$4.80 per 100, postpaid if 250 are ordered.

Bellis Perennis (English Daisy), nice plants ready to transplant, 50c per 100. Minimum order 1000 plants, postpaid.

MATTHEWS NURSERY

1216 W. Ridge Rd., Gary, Ind.

## GENUINE IMPORTED HOLLAND BULBS.

One of America's best list of the finest varieties and Novelties. All top-size bulbs. Ready for immediate shipment. Send for our free catalog, beautifully illustrated in color, with wholesale discounts.

TULIPS, HYACINTHS, NARCISSUS, CROCUS, LILIES and many other species of miscellaneous bulbs. All reasonably priced.

Also, our wholesale list of PERENNIALS and ROCK GARDEN PLANTS is now ready.

Send for your copy.

CARROLL GARDENS, Westminster, Md.

## WHOLESALE PRICES OF CANNA BULBS.

\$6.00 per 100, \$50.00 per 1000

Hungaria, tall, pink; Wyoming, yellow;

King Humbert, red; Yellow King Humbert,

yellow; President, red; Pennsylvania, orange

and red.

BENTON COUNTY NURSERY CO.

Rogers, Ark.

CANNAS—Select stock, 200,000 President, rich scarlet, 4 ft., green foliage, carefully grown under our personal supervision, guaranteed true to name. Strong, 2 to 5-eye divisions. Liberally graded, \$3.00 per 100, \$60.00 per 1000.

MRS. CHARLIE ROBINSON, Greenville, Ga.

## BLACKBERRY LILIES

(Belamcanda Chinensis)  
Rare and beautiful, rich orange blossoms, followed by berries. \$2.00 per doz. \$10.00 per 100.

MRS. CHARLIE ROBINSON, Greenville, Ga.

## CROCLE LILIES

Improved variety, sound and clean blooming size, \$25.00 per 100; \$40.00 per bu.

MRS. CHARLIE ROBINSON, Greenville, Ga.

## EVERGREENS

### LIVING-OUT STOCK

Available Spring 1947.

	Per 1000
White Pine, 2-1, 4 to 6 ins.....	\$ 40.00
White Pine, 2-2, 10 to 12 ins.....	40.00
White Pine, 2-3, 20 to 32 ins.....	140.00
Norway Red Pine, 2-0, 4 to 6 ins.....	25.00
Norway Red Pine, 2-1, 5 to 8 ins.....	48.00
Norway Red Pine, 2-2, 7 to 12 ins.....	75.00
Western Yellow Pine, 2-0, 4 to 6 ins.....	25.00
Western Yellow Pine, 2-1, 10 to 16 ins.....	95.00
White Spruce, 2-2, 4 to 6 ins.....	70.00
White Spruce, 2-1, 8 to 12 ins.....	100.00
Black Spruce, 2-3, 3 to 7 ins.....	45.00
Black Spruce, 2-2, 8 to 12 ins.....	80.00
Black Hills Spruce, 2-3, 6 to 10 ins.....	80.00
Black Hills Spruce, 2-2, 10 to 14 ins.....	120.00
Black Hills Spruce, 2-3, 14 to 18 ins.....	140.00
Engelmann's Spruce, 2-2, 4 to 7 ins.....	75.00
Balsam Fir, 2-0, 2 to 4 ins.....	30.00
Balsam Fir, 2-3, 8 to 10 ins.....	110.00

Lined-out Stock.

	Each	Per 100
Mugho Pine, XX, 8 to 10 ins.....	\$0.60	\$65.00
Mugho Pine, XX, 10 to 12 ins.....	.90	85.00
Colorado Blue Spruce, XX,		
12 to 18 ins.....	2.00	195.00
18 to 24 ins.....	3.00	295.00
Colorado Green Spruce, XX,		
18 to 24 ins.....	2.00	195.00
White Spruce, XX, 12 to 18 ins.....	.85	80.00
White Spruce, XX, 18 to 24 ins.....	1.10	115.00
White Spruce, XX, 24 to 30 ins.....	2.50	245.00
Black Hills Spruce, XX,		
12 to 18 ins.....	.85	80.00
18 to 24 ins.....	1.50	145.00
Platte River Juniper, XX,		
12 to 18 ins.....	.90	85.00
18 to 24 ins.....	1.35	130.00
24 to 36 ins.....	2.00	195.00
Communis Juniper, XX,		
8 to 10 ins.....	.85	80.00
American Arborvitae, XX,		
18 to 24 ins.....	.70	65.00
Hemlock, XX, 10 to 14 ins.....	.55	50.00

GIRARD BROS. NURSERY

Geneva, Ohio

## EVERGREEN LINERS

10,000 Andorra Junipers, 8 to 10-in. transplants in open field rows, \$15.00 per 100; \$125.00 per 1000; free samples. Come and see them. Order from this ad. Free packing. Give shipping date.

WHERRY'S NURSERIES

St. Marys, W. Va.

Ready for shipment fall 1946—Spring 1947.

Azaleas.

Hinodegiri, Red, funnel-shaped flowers,

blossoms April and May, low grower.

Per 100 Per 1000

2000 8 to 10 ins.....\$ 9.00 \$ 85.00

7000 10 to 12 ins.....12.50 115.00

1000 15 to 18 ins.....21.00 185.00

Benigiri, Pink flower in April and May,

low grower.

1500 8 to 10 ins.....9.00 85.00

1000 10 to 12 ins.....12.50 115.00

Macrantha, Tall, to 3 feet, pink flowers.

1000 10 to 12 ins.....12.50 115.00

1500 12 to 15 ins.....15.00 140.00

Amoena, Purple. Also known as Rhododendron Hatsuiri.

1500 10 to 12 ins.....12.50 115.00

1000 12 to 15 ins.....16.50 150.00

500 15 to 18 ins.....20.00 185.00

Lorraine, Pure rose-pink, semidouble, blooms

late, low grower.

300 8 to 10 ins.....9.00 85.00

300 10 to 12 ins.....12.50 115.00

HEATHER

Mediterranean Hybrid Dwarf, compact grow-

er. Purple-tinted flowers, blooms throughout

winter and early spring.

2500 9 to 12 ins.....7.50 70.00

3000 12 to 15 ins.....9.00 85.00

Springwood (White), Hybrid, blooms

throughout winter, early spring.

2000 9 to 12 ins.....7.50 70.00

2000 12 to 15 ins.....9.00 85.00

All of the above are twice transplanted,

field-grown, nice bushy plants ready for

your retail trade or forcing.

RICHMOND NURSERIES

Richmond Beach, Wash.

## EVERGREENS

Chinese Arbv., 4 to 5 ft.....\$2.50

Hemlock Spruce, 30 to 36 ins.....2.50

Hill's Pyramidalis Arbv., 30 to 36 ins.....2.00

White Pine, 3 to 4 ft.....2.75

English Juniper (Communia Upright),

5 ft.....2.75

Tamaricifolia Juniper, 2 ft.....1.75

Stricta Juniper, 36 to 42 ins.....2.50

Andorra Juniper, 3 ft.....2.50

Pfitzer Juniper, 24 to 30 ins.....2.00

3 to 4 ft.....3.50

French Spike Juniper, 4 to 5 ft.....2.25

Golden Juniper (spreader), 3 ft.....2.50

BROAD-LEAVED EVERGREENS.

Lalandi Thorn, 4 to 5 ft., cut back.....2.50

Cotoneaster Francheti, 3 to 4 ft.....1.75

Cherry Laurel, 4 to 5 ft.....3.50

SHADE TREES.

Pin Oak, 8 ft., 2-in. cal.....2.25

Willow Oaks, 8 ft., 2-in. cal.....2.25

Weeping Willow, 6 ft.....1.25

White Dogwoods, 5 to 6 ft., 2-in. cal.....2.50

Redbud trees, 6 to 7 ft.....1.25

Chinese Elm, several sizes and prices.

F.O.B. Nashville or Nursery, Pogram,

Tenn., carlots or trucklots. Cash or approved

credit. Terms 2 per cent 10 days, 30 days

net. Quotations on other items upon request.

Phone 8-6098.

TRITSCHLER'S GREENHOUSES,

Nashville 9, Tenn.

## FOR IMMEDIATE

### OR SPRING DELIVERY

Select Clean Stock

Japanese Spreading Yew.....

12 to 15 ins., B&B.....\$2.00

15 to 18 ins., B&B.....2.50

24 to 30 ins., B&B.....3.50

Clipped Yews, Globe.....

15 to 18 ins., B&B.....3.00

18 to 24 ins., B&B.....3.75

Clipped Yews, Pyramid.....

24 to 30 ins., B&B.....4.50

30 to 36 ins., B&B.....4.50

Norway Spruce.....

3 to 4 ft., B&B.....1.00

4 to 5 ft., B&B.....1.50

Also Pyramid Arborvitae, Mugho Pine and

Colorado Blue Spruce.

Ask For Prices

NIAGARA HORTICULTURAL PRODUCTS

St. Catharines, Ont., Can.

## EVERGREENS.

Lining-out stock.

I wish to thank all those who have pur-

chased stock from us in the past, and have to

inform you that our stock is now exhausted.

We will again be ready to serve you during

1947 with a more complete line than ever.

Better get in touch with us during the winter

for later delivery.

Clarence T. Esham.

ESHAM'S NURSERIES

Frankford, Del.

We are sold out of liners for this fall, but will have for next fall:

300 Canadian Hemlocks, 12 to 15 ins. \$22.00  
1000 Am. A. V. 1 to 1 1/4 ft. tr. 19.50  
1000 Balsam Fir, 1 to 1 1/4 ft. tr. 19.50  
400 American Holly, 1 to 1 1/4 ft. tr. 19.50  
245 American Holly, 1 1/4 to 3 ft. tr. 35.00  
Free packing. Shipped prepaid. Cash with order, please.

WHERRY'S NURSERIES, St. Mary's, W. Va.

200,000 BUXUS SUFFRUTICOSA  
Most beautiful, true, old-fashioned, dwarf, heavy, round, compact, perfect shaped tops, carefully grown under our personal supervision; 5 years; 10 to 12-in. plants, \$50.00 per 100; 35c in lots of 1000 or more.

MRS. CHARLIE ROBINSON, Greenville, Ga.

AZALEA ROOTED CUTTINGS  
100,000 Formosa and some other Indian varieties available for shipment after December 1. \$6.50 per 100; \$60.00 per 1000. No charge for packing. FLORIDA NURSERY & LANDSCAPE CO., P. O. Box 97, Leesburg, Fla.

RED AND WHITE PINE—8,000 to 10,000 Red and White Pine Trees, 2 to 4 feet in height. Bred to select and remove from present location at Easton, Conn. Reasonably priced for early removal and sales in volume. Inquire J. H. ECKART, R. F. D. 4, Madison Ave., Bridgeport, Conn.

CHRISTMAS TREES  
Colorado Blue Spruce, Norway Spruce, Nikko Fir, Austrian Pine and Scotch Pine, from 3 to 10 ft. Sold on personal inspection only.  
CALL'S NURSERIES, Call Rd., Perry, O. Est. 1877.

SPECIMEN TAXUS  
See my Ad in this issue for some beautiful specimen Taxus. Also write or call about other specimen Magnolias, etc. Westbury 328. JOHN VERMEULEN, Westbury, L. I., N. Y.

Norway Spruce, 2 to 3 ft., \$1.25; 3 to 4 ft., \$1.50, and 4 to 5 ft., \$1.75. B. & B. F.O.B. on your truck, or you may select and dig your own at reasonable prices. Cut trees after December 10.

CARL CARTER, Roseville, O.

EVERGREENS B&B. Each  
1000 Norway Spruce, 2 to 2 1/2 ft., sheared \$1.55  
200 American A. V. 2 1/2 to 3 ft., sheared 1.45  
300 Irish Junipers, 2 to 2 1/2 ft., sheared 1.25  
F.O.B. our Nursery; Phone 9F2.

WHERRY'S NURSERIES, St. Mary's, W. Va.

300 PFITZER JUNIPERS, 24 ins., beautiful plants; dig yourself, \$1.50 ea., or \$400.00 for 300 plants.

ANN ARBOR NURSERY, opposite Island, Ann Arbor, Mich. Phone 257702.

AZALEAS  
Snow and Pink, good spread, 2 to 3 ft., \$10.00 per 100; 3 to 4 ft., \$15.00 per 100.  
MRS. CHARLIE ROBINSON, Greenville, Ga.

BUXUS, SUFFRUTICOSA, 8 to 10 ins., bushy, stout, bed plants, per 100.  
MRS. CHARLIE ROBINSON, Greenville, Ga.

#### FRUIT TREES

Special for shipment at digging time about November 1 to 15.

PEACHES, all standard varieties.  
18 ins. and under.....10c  
18 to 24 ins.....15c  
2 to 3 ft.....25c  
3 to 4 ft.....35c  
4 to 5 ft.....50c  
5 to 6 ft.....60c  
6 ft.....80c  
In lots of 100 or more assorted. Under 100 3c each more.

PLUMS, 10c each higher.  
APRICOTS, 15c each higher.  
PEARS, 20c each higher.

FRIQU FLORAL & NURSERY  
1114 E. Henderson St., Cleburne, Tex.

#### HARDY PLANTS

##### PEONIES

3 to 5-eye div., \$35.00 per 100  
Alexandre Dumas, rose.  
Festiva Maxima, white.  
Louis Vanhoutte, cherry-red.  
L'Eclatante, crimson.  
Modele de Perfection, pink.  
About 500 each variety available.  
EASTERN SHORE NURSERIES, INC.  
Easton, Maryland.

PRIMULA POLYANTHA. Western Rainbow Giant! Seedlings sold out until November. 1 X plants, \$12.50 per 100, will bloom heavily next spring. Seeds, Tr. packet, \$1. 1/2 oz., \$2. Also seeds, pulverulent, denticulata, florindae, auricula. Trade pkt., \$1.  
WESTERN HORTICULTURAL SUPPLY  
3629 S. E. 67th Ave., Portland 6, Ore.

HARDY CHRYSANTHEMUMS, heavy field-grown plants, Pink Dandy, October Beauty, Bronze and Pink Cushion, \$5.00 per 100. Lily of the Valley, 7 or more tips to clump, \$15.00 per 100. Yucca filamentosa, field-grown clumps, \$15.00 per 100.  
ECONOMY NURSERY CO., Little Silver, N. J.

#### PERENNIALS. Sturdy field-grown clumps.

Per 100  
Achillea The Pearl ..... 8.00  
Aquiliegia Mrs. Scott Elliott ..... 8.00  
Arabis Alpina ..... 12.00  
Arabis Alpina Rosea ..... 12.00  
Armeria Lauchiana ..... 12.00  
Dianthus Headland Queen ..... 12.00  
Dianthus Esther Queen ..... 12.00  
Dianthus plumarius ..... 8.00  
Dianthus Pink Cushion ..... 12.00  
Delphinium Wrexham Hyb. ..... 12.00  
Delphinium Belladonna ..... 10.00  
Delphinium Bellamosum ..... 10.00  
Fuchsia Magellanica ..... 20.00  
Funkia Sub. Grandiflora ..... 20.00  
Gypsophila Paniculata ..... 5.00  
Gypsophila Bristol Fairy ..... 35.00  
Papaver Giant Sanford ..... 8.00  
Shasta Daisy Alaska ..... 10.00  
Teucrium chamaedrys ..... 15.00  
Veronica spicata ..... 12.00  
Viola Prince of Wales ..... 12.00  
Viola Frey's Fragrant ..... 15.00

Cash With Order.  
STORRS & HARRISON NURSERIES INC.  
Painesville, O.

#### PEONIES.

Per 10 Per 100 Per 1000  
Alexandre Dumas ..... \$3.00 \$27.00 \$250.00  
Baroness Schroeder ..... 7.50 60.00 500.00  
Candidissima ..... 4.00 35.00 300.00  
Cheshire Gurdy ..... 10.00 85.00 600.00  
Cherry Hill ..... 7.50 60.00 .....  
Delicatissima (Fl. Tr.) ..... 3.00 27.00 250.00  
Edulis Superba ..... 3.00 27.00 250.00  
Festiva Maxima ..... 3.00 27.00 250.00  
Floral Treasure ..... 3.00 27.00 250.00  
Fragrante ..... 3.00 27.00 250.00  
Karl Rosenfeld ..... 7.50 60.00 500.00  
Lady Lenora Bramwell ..... 3.00 27.00 250.00  
Le Cygne ..... 20.00 150.00 .....  
L'Eclatante ..... 7.50 60.00 500.00  
Mme. Jules Desart ..... 10.00 125.00 .....  
Mons. Jules Elie ..... 6.00 55.00 500.00  
Officialis Rubra ..... 6.00 55.00 .....  
Reine Hortense ..... 6.00 55.00 500.00  
Sarah Bernhardt ..... 6.00 55.00 500.00  
Solange ..... 6.00 55.00 .....  
Queen Victoria ..... 3.00 27.00 250.00

Peonies according to color:  
White and Pink..... 3.00 25.00 230.00  
Red ..... 3.50 30.00 250.00  
PHIL LUTZ PEONY FARMS,  
Boonville, Ind.

Field Clumps (Roots only) HARDY ENGLISH CHRYSANTHEMUMS: Alpink, Bronze Frieda, Cerise, Elite, Frieda, Hillcrest Red, Pink Reward, Pink Profusion, Pink Princess, Snowball, Sunlite, Nellie Richardson, Polly, Revere, 5c each; Belle Havre, Border White, Egypt, Gold Standard, Gladiator, Leda, Mrs. Pattie, Vulcan, 40c each. Our choice 12 varieties, \$5.00; or 25 for \$10.00. Other Hardy Mums: Amber Glow, Rodell, Alconquin, Red Gold, Red Riding Hood, Chinewave, Avalanche, Mrs. Hastings, Bur-sundby, Harbinger, Autumn Lights, Mrs. Zeeman, Robert Brydon, Solid Gold, 35c each. Rodell, Yellow Anemone, Ruby, Silverbelle, Sloux, Sandra, Vivid, Minong, Sunkist, Red Flame, Cimarron, Mitzel, Sappho, 25c each. Cash. F.O.B. Daisies, Shasta, Hartje and Elder, 3c each.  
Artemisia lactiflora, Adenophora multiflora, Sedum spectabile, Double Columbine, Centaurea macrocephala, Dianthus Furat Blamark, Liriope Exilliflora, Stokesia cyanea, divisions 5c.  
HILLVIEW GARDENS, Fort Madison, Iowa

#### PEONIES

Young, strong plant, 3 to 5 eyes.  
\$25.00 per 100; \$225.00 per 1000.  
Alba Superba ..... Blushing Bride  
Candidissima ..... Doyenne d'Engheim  
Duchesse de Nemours, Faust  
pink ..... Francis Ortegat  
Fragrantissima ..... Perfection  
Marie Antoinette ..... Sweetheart  
Rosea Superba .....  
W. T. SMITH CORPORATION  
Geneva, New York

BLEEDING HEARTS  
DICENTRA SPECTABILIS, 3 to 5 eyes, \$40.00 per 100. DICENTRA EXIMIA, 3 to 5 eyes, \$20.00 per 100. Cash with order.  
J. HENDRIKS, Grower, Portage, Mich.

PERENNIAL VERBENAS.  
Rich scarlet, Snow, pink and lavender. Large field plants, \$4.00 per 100, \$25.00 per 1000.  
MRS. CHARLIE ROBINSON, Greenville, Ga.

VIOLETS.  
Sweet-scented blue, hardy, heavy bloomers; large plants, \$3.00 per 100, \$25.00 per 1000.  
MRS. CHARLIE ROBINSON, Greenville, Ga.

Tritomas, Phlox, Carnation and many other hardy perennials. Write for Surplus List.

SUNBEAM FARM 1 1/4-in. 2 new 1 1/4-in. and up. Also small lining-out stock. Write for prices now. Extra-fine stock.

ASHCRAFT'S PLANT NURSERY  
Copevish, Mich.

#### ROOTS

VICTORIA AND LINNAEUS RHUBARB ROOTS for late fall delivery in the following grades: 1/2 to 3/4, 3/4 to 1, 1 to 1 1/4-in.; 2 new 1 1/4-in. and up. Also small lining-out stock. Write for prices now. Extra-fine stock.

ASHCRAFT'S PLANT NURSERY  
Copevish, Mich.

STRAWBERRY RHUBARB Per 100  
Jumbo size divisions.....\$12.00  
Medium size divisions ..... 9.00  
Small size divisions ..... 6.00  
Less 15 per cent in lots of 500 or more.  
Ready to ship now, cash with order.  
GRIMSHAW NURSERY, Hayward, Calif.

#### SEEDS

CALIFORNIA PEACH SEEDS  
California Lovell Peach Pits from 1946 crop. Well cared for in drying. In bags of about 80 lbs. Each \$3.00 per bushel. In lots of ten and up, \$2.50 per bushel, F.O.B. Rogers, Ark.  
BENTON COUNTY NURSERY CO., INC.  
Rogers, Ark.

PEACH PITS, Southern-collected, high germination \$3.00 bu.; Peach seedlings for budding or grafting \$25.00 per 1000, \$3.00 per 100. Boxwoods, Shrubs, Fruit trees. Cash with order. RIVERDALE NURSERIES, Riverdale, Ga.

MONTMORENCY SEEDS.  
Germinate well; seedlings bud readily or make good trees without budding.  
Pound, 60c; 10 pounds, \$5.00 postpaid.  
40c per pound F.O.B.  
NOBLE NURSERY, Noble, Okla.

#### SHRUBS and TREES

TURNER BROTHERS NURSERY  
SURPLUS LIST  
DOGWOODS and SHADE TREES  
All the following trees are well shaped specimens and have not been crowded in the rows.  
CORNUS FLORIDA

Per 10 Per 100  
60 5 to 6 ft., B&B.....\$35.00 \$200.00  
250 6 to 8 ft., B&B..... 45.00 400.00  
120 8 to 10 ft., B&B..... 65.00 600.00  
20 10 to 12 ft., B&B..... 85.00 800.00

ACER DASYCARPUM  
Ft. high ins., cal.  
25 12 to 15 2 to 2 1/2 ..... 27.50 250.00  
25 15 to 18 2 1/2 to 3 ..... 35.00 325.00  
25 15 to 18 3 to 3 1/2 ..... 45.00 425.00  
20 15 to 18 3 1/2 to 4 ..... 55.00 .....  
5 15 to 18 4 to 5 ..... 75.00 .....

ACER DAS. WIERI  
Ft. high ins., cal.  
5 15 to 18 3 1/2 to 4 ..... 75.00 .....  
5 15 to 18 4 to 5 ..... 90.00 .....

ACER PLATANOIDES  
Ft. high ins., cal.  
60 12 to 16 2 to 2 1/2 ..... 45.00 450.00  
75 12 to 16 2 1/2 to 3 ..... 58.00 550.00  
50 15 to 18 2 to 3 ..... 75.00 725.00  
20 15 to 18 3 to 4 ..... 100.00 875.00  
10 15 to 18 4 to 5 ..... 120.00 .....

ACER PLAT. SCHWEDLERI  
Ft. high ins., cal.  
25 12 to 15 2 to 2 1/2 ..... 70.00 675.00  
40 12 to 15 2 1/2 to 3 ..... 85.00 825.00  
20 15 to 18 3 to 3 1/2 ..... 95.00 .....

ACER RUBRUM  
Ft. high ins., cal.  
10 12 to 15 2 to 2 1/2 ..... 50.00 .....  
25 15 to 18 2 1/2 to 3 ..... 70.00 .....  
60 15 to 18 3 to 3 1/2 ..... 85.00 800.00  
20 15 to 18 3 1/2 to 4 ..... 100.00 950.00  
25 15 to 18 4 to 5 ..... 120.00 .....

F. O. B. Nursery  
TURNER BROTHERS NURSERY  
Monmouth & Parker Roads,  
West Long Branch, N. Y.

#### LINING-OUT STOCK

Per 100 Per 1000

Barberry Thunbergi ..... \$7.50 \$75.00  
Atrorubra, 6 to 9 ins..... 8.00 80.00  
Crataegus Lalandi, 4-inch pots 60.00  
Foraythia Primulina, 1-yr..... 8.00 70.00  
Malus in following varieties,  
1-yr. from grafts: Atrosanguinea  
and Scheideckeri ..... 35.00 .....  
Lemoinei and Parkmanni ..... 30.00 .....  
Lonicera Bella Albida, Morrow,  
Tatarica, Rosea and Rubra,  
1-yr..... 5.00 .....  
New Red ..... 6.00 .....  
Zebellina ..... 8.00 .....  
Tamarix Summer Glow ..... 10.00 .....  
Philadelphus Amalthea,  
purple eye, pots ..... 15.00 120.00  
1-yr. beds ..... 20.00 150.00  
Atlas, large single white ..... 20.00 .....  
Belle Etoile, pots ..... 20.00 .....  
Belle Etoile, 1-yr. beds ..... 20.00 .....  
Fleur de Neige, pots ..... 20.00 .....  
Pyramidalis ..... 15.00 .....  
Pyramidalis, 1-yr. beds ..... 20.00 .....  
Vernalis, 1-yr. beds ..... 20.00 .....

Syringa Sweginowii Albida, 4 in. fine free-blooming lilac with immense trusses of pinkish-white blossoms ..... 15.00 .....  
COTTAGE GARDENS, Lansing, Mich.

#### SOUR CHERRIES

Each Per 10  
Early Richmond, Montmorency,  
Brassington, 2-yr., 9/16-in.....\$1.00 \$ 9.00

APRICOTS  
Hungarian Best, 2-yr., 11/16-in. 1.20 10.00  
Moorpark, 2-yr., 9/16-in..... 1.00 9.00

CYDONIA JAPONICA  
Per 10 Per 100  
15 to 18 ins.....\$2.50 \$20.00  
18 to 24 ins..... 3.00 25.00  
2 to 3 ft..... 4.00 35.00

Cash with order.  
STORRS & HARRISON NURSERIES, INC.  
Painesville, Ohio





**TRE-TEX** Saves any tree from damage by rabbits, mice, gophers, etc. Also effective repellent for fruit tree borer, scab, winter-kill. Also used as adhesive in any dust spray. Applied any time of year like varnish and lasts at least one year. Applied to 100 trees in one hour. Unused portion never spoils. Results guaranteed. Prices Postpaid: 1 pound, \$1.00; 10 lbs., \$9.00; 50 lbs., \$45.00; 100 lbs. or over, \$89.00 F.O.B. Noblesville. Used at Orchardview since 1942. Sold in 30 states in 15 months. Trade Mark patent issued 1946. Rev. E. L. Eckerley, Box 91, Noblesville, Ind.

#### FINE SCREENED PEAT

Acid pH 4-5. Some Nitrogen.  
Our Peat is excellent for Gardenias, Camellias, Azaleas and Hydrangeas, also for mixing with soil for pitting, seed flats and mulching. Order early. Packed in 2-bu. bags, 5 to 24 bags, \$1.00 each; 25 to 49 bags, 95c each; 50 to 100 bags, 90c each. Bulk carload, about 60 yards or 600 bags, \$275.00 per car. We ship same day order received. Cash, please.

#### HAASE BROS.

116 S. Jefferson St. Peoria, Ill.

#### BAMBOO CANE STAKES.

Special sizes supplied on request.  
DYED GREEN, pencil thickness.

	Contents	Price Per bale Per 1000
1 1/2 ft. ....	1000	\$ 5.00
2 ft. ....	1000	6.50
3 ft. ....	1000	9.00
3 1/2 ft. ....	1000	10.25
4 ft. ....	1000	12.50
5 ft. ....	1000	18.50

#### NURSERYMEN'S EXCHANGE

938 Howard St. San Francisco 3, Calif.

#### IMPORTED CANE STAKES

Check your needs and order now.

Size	Per 1000
15 ins. ....	\$3.60
18 ins. ....	4.10
24 ins. ....	5.40
30 ins. ....	6.90
36 ins. ....	8.30
48 ins. ....	10.75

#### AMERICAN BULB CO.

1335 W. Randolph St. Chicago 7, Ill.

#### PROFIT WITH PERF-O-RAIN.

Rain when you want it—low pressure—rectangular strip watered—No overlap—No sprinkler heads or other gadgets—Portable lightweight pipe—Long life. Write for free folder. W. R. AMES COMPANY OF FLORIDA, 3905 E. Broadway, Tampa 5, Florida, or W. R. AMES COMPANY, 150 Hooper St., San Francisco 7, Calif.

**SOIL HEATING EQUIPMENT**, designed by a grower and engineer, for commercial propagation. Cable, soil thermostat and pilot lamp to heat 20 sq. ft., \$11.40; 40 sq. ft., \$14.25; 60 sq. ft., \$17.10; 80 sq. ft., \$19.95, and 150 sq. ft., \$28.05. F.O.B. Seattle.

1539 E. 103rd St. Seattle 55, Wash.

Complete Hot Water Heating System for greenhouse, size 18 x 35 ft. in good shape. Immediate possession, \$150.00. Also greenhouse for above system for \$100.00 in fair shape. Both for \$200.00.

#### WHERRY'S NURSERIES

St. Mary's, W. Va.

**RUBBER.** Your Rubber requirements are important. Know where to get it when you want it. Belts, rubber bands, boots, coats, gloves, hose, spray bulbs, aprons, budding strips. Get our price sheet and catalog today.

#### BROADWAY RUBBER MFG. CO.

Louisville 2, Ky.

#### SPECIAL SALE

Sphagnum moss, long fibered in standard burlap bales at \$1.55. Milled sphagnum moss for control of damping off in seed flats, etc., at \$1.55 per bag. F.O.B. Floodwood, Minn.

#### COLBY PIONEER PEAT CO., INC.

Hanlontown, Ia.

**SOIL HEATING CABLE** by "GRO-QUICK." Now shipping heavy duty cable. New soil temp. thermostat with pilot light, \$9.50. Bottom heat can't be beat for rooting cuttings, for forcing. See advt. this issue.

#### GRO-QUICK,

366 W. Huron St., Chicago 10, Ill.

**PAPER FLOWER POTS**, red. 1000 2-in., 2600 2 1/2-in., 1800 2 1/2-in., 3000 3-in., 5200 3 1/2-in., 1000 4-in., \$75.00. Labeled: 1450 2-in., 1600 2 1/2-in., 850 2 1/2-in., 3600 3-in., \$20.00. Not used, will exchange for overgreen liners.

#### THOMAS NURSERY, AFTON, MO.

#### PRINTING

Letterheads, billheads, statements, cards envelopes, tags, blotters, folders, catalogs samples. Send copy for estimate.

J. GARLAND HILL, Dept. A, Seaford, Del.

**GIBRALTAR Frost Covers** pay for themselves. Economical, long-lasting, ideal for windbreaks, 6 ft. wide; 50 ft., \$13.75; 100 ft., \$25.00; 150 ft., \$39.00. NEW AMSTERDAM IMPORT, 122 Chambers St., New York 7, N. Y.

"NAMSOCO" Dutch-type Burlap Squares, soft, easy to tie. Save time, labor, twine. Write NEW AMSTERDAM IMPORT CO., INC., 122 Chambers St., New York 7, N. Y.

**MAGIC ELECTRIC WELDER**, 110-volt AC-DC; welds, brazes, solders, cuts all metals; easy to use; full directions. Complete with power unit, flame and metallic arc attachments, carbons, fluxes, rods, mask. Only \$19.95. Used by the Navy. Guaranteed one year. Splendid for nursery and farm use.

#### MAGIC WELDER MFG. CO.

341NA Canal St., New York, N. Y.

If you don't find what you want try a Classified Ad under the heading "Wanted." It's cheaper than mailing out a want list.

#### WANTED

What have you to offer in Strawberry Plants, Grapevines, Raspberry Plants, Boysenberry Plants, lining-out stock Evergreens and Shrubs; fall and spring delivery; write us, Box 710.

#### E. W. TOWNSEND & SON NURSERIES

Salisbury, Md.

**WANTED**—A good quantity of Pink-flowering Dogwood, 1 to 2, 2 to 3, 3 to 4 and 4 to 5 ft. Quote us on sizes and prices you can furnish. JOHN WILLIAMS & SONS, Nurserymen, Lynchburg, Va.

#### WANTED.

Christmas Trees. State prices delivered to my nursery.

#### CHALIN LEWIS NURSERY

Piggott, Ark.

#### WANTED FOR SPRING 1947.

1000 Colorado Blue Spruce; 12 inches, twice transplanted.

#### VILLA PARK EVERGREEN CO.

Villa Park, Ill.

#### SPRAY FOR BOXWOOD WILT.

Boxwood wilt has spread heavily in some areas of Maryland this year, according to Dr. Mark Woods, plant pathologist at the University of Maryland, who has advised owners of diseased plants to cut out all deadwood and spray the plants with 4-4-50 Bordeaux mixture.

Winter injury to the plants, followed by heavy spring rains that helped spread the wilt fungus, caused the disease to attack many boxwood plants, killing large branches and sometimes entire plants, as well as smaller limbs and twigs. The wilt shrivels the leaves, and they turn brown. In wet weather the diseased leaves and wood show the salmon-pink fruiting bodies of the fungus.

For thorough control of boxwood wilt, Dr. Woods advised owners to cut out all diseased branches when the plants are dry, clean out all dead leaves and debris from about the plants and spray the entire plant with Bordeaux. A spreader should be added to the spray mixture, he said, to guarantee thorough coverage.

JOHN A. PODESTA and Dom Boschetto have announced their partnership in the New San Leandro Nursery, San Leandro, Cal. At the present time they are growing roses, but expect to add other cut flowers to their greenhouse crops.

A. W. FOX has sold the Fox Nursery & Landscape Service, Elkhart, Ind., to John Sunthimer, formerly with the R. M. Kellogg Co., Three Rivers, Mich. Mr. Sunthimer will continue the business under the name of Fox Nursery.



## HEDGE-KLIP

### PORTABLE

### ELECTRIC HEDGE TRIMMER

For home owners... landscapers...

nurserymen!

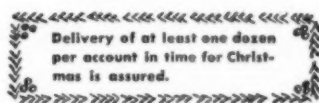
**\$44.50**

In Zone 1  
(Less Discounts)

**\$49.50** in Zone 2 (West  
of Miss.) (Less Discounts)

Nationally advertised!

Free Folders and Mats!



- Continuous duty universal electric motor, 110v, AC-DC
- Hardened tool-steel blades with 12" cutting length
- Two aircraft-type balanced (plastic) handles with (metal) inserts
- Complete with 15 ft. extension cord, switch and plug
- May be used on hedges, shrubbery, trees and grass

## ACCMATOOOL CO., INC.

102 W. 101st ST. • NEW YORK 25, N. Y.

Mention The American Nurseryman when you write.

## SPRAY WITH C. P. O.

Use this Safe, Odorless, Non-Poisonous Spreader in place of fish oil soaps and summer oils.

### FOR BETTER CONTROL OF

Lace Bug Pine Leaf Scale  
Red Spider Spruce Gall Aphids  
Juniper Scale Euonymus Scale  
Lilac Scale Aphids

And Most Sucking Insects on Evergreens and Ornamentals

Write for information and samples and learn how you can reduce cost of nicotine sprays one-half.

## Crystal Soap & Chemical Co., Inc.

Department A N  
6300 State Road, Philadelphia 35, Pa.

## INSECTS AND DISEASES OF BULBOUS PLANTS.

[Continued from page 12.]

even the stalks. The stems may fall over, and on them a gray fungus develops. The flowers may not be much affected, but may not open. The main point in control is to sort out all the affected bulbs before planting and discard those that show symptoms of the disease. It is important to avoid injuring any bulbs by careless handling. In these ways one may forestall fire blight.

Blasting of flowers of tulips occasionally happens. In this case the flowers fail to open, are distorted, or may open prematurely and soon go by due to early dropping. This condition may be due to heating of the bulbs to a temperature that is too high for them, as they do not stand much heat. Occasionally it may be due to overwatering or to fluctuating temperatures.

### Hyacinth Rot.

The hyacinth is affected by a yellow rot. There are yellow stripes on the leaves, which are followed by brown streaks. The yellow rot forms in the bulbs and the entire structure often soon rots. There is no remedy but precaution. One should buy one's stock from reliable sources. Use new or sterilized soil in potting or planting in beds, and always discard infected bulbs. Watch for incipient cases.

### Slugs and Wireworms.

There are instances where slugs, the soft-bodied slimy snails, and the slender brown wireworms injure stems underground or the roots. Slugs can be suppressed by scattering lime over the plants and ground, using enough to whiten the surface. Wireworms work mostly under the shade of plants. Dowfume or carbon disulphide, applied in the ground, will suppress them. DDT is also effective.

Wireworms are slender brown worms, the immature stage of the click or snapping beetles. The full-grown worms are hard-shelled, measuring about an inch in length. There are many different species, all of which pass their larval stage in the soil. Some species require three years to complete their life cycle; others require six or seven years to do so. This explains the apparent "recurrence" of wireworms in succeeding seasons in any area. As the creatures do not all emerge at any one time, there is an overlapping of generations and they seem to persist unless all are killed.

## WANT ADS

Help and Situation Wanted and For Sale advertisements.

Display: \$2.50 per inch, each insertion.

Lines: 20¢ line; minimum order \$1.00

### FOR SALE

Nursery plant and seed sales lot with small greenhouse; inside city limits of Erie, Pa.; on route 20, main route between New York and Chicago; established 13 years; unlimited sales possibilities; selling on account of poor health.

HENRY C. MERCHANT

Box 91 Wesleyville, Pa.

### FOR SALE

Houser Nursery, Toledo, Ohio

Approximately 12,000 trees, 3,000 salable each year. 2 acres owned, 2 acres under lease; 4-room modern bungalow; tractor and tools included in sale price.

For information, write or call  
THE THEO. SCHMITT CO.  
233 N. St. Clair St., Toledo, O.  
Main 4121

### SITUATION WANTED

Because of health, nursery foreman, 44, married, 1 child, desires position with a southern, dry-climated nursery. Good references, years of experience with northern nursery. Address: Box No. 467, care of American Nurseryman.

SITUATION WANTED—Can I represent your line in the Pacific Northwest? What's your deal? Personal details on request.  
FRED P. H. CLYDE, CLYDEMONT NURS.  
11506 S. W. 35th Dr. Portland 1, Ore.

SITUATION WANTED—Interested in permanent position as foreman; 18 years experience in general nursery work, wholesale and retail. 12 years with one company as foreman. Prefer middle west, age 38, married. Address Box No. 468, care of American Nurseryman.

WANTED TO BUY—Small cash-and-carry nursery with modern residence; Ohio, Pennsylvania, Kentucky or Tennessee; or would consider substantial interest in larger operation. Address Box No. 461, care of American Nurseryman.

HELP WANTED—Middle aged man, 30 to 50, to take charge of our mail-order nursery division.

This job is a good one for the right person and will pay a good salary.

Man must be familiar with ordinary mail-order nursery items, must be able to recognize good quality when shipments arrive, see that they are properly labeled, properly stored and when shipping season opens, supervise labeling, trimming, wrapping, packing and getting them on the trucks to the post office. During the summer months, we grow some hardy perennials, which would be under his supervision.

CONDON BROS. SEEDSMEN  
Rockford, Illinois

HELP WANTED—Looking for a young man 25 to 35 years old, who, after one year in our territory, near large eastern city, can show himself capable of taking entire charge of landscape department for established nursery. Should have a good education along horticultural lines and a friendly personality. To such a man we will pay fair salary first year, a commission on his sales the second year, thereafter percentage of profits from landscape department operations. A-1 character and other reference will be required. Address Box 464, care of American Nurseryman.

FOR SALE—Home and investment. Attractive 5-room home with bath, attached garage, all in excellent condition, well located, just six miles from downtown Toledo. 3 acres of heavy loam and clay, with 3700 of the finest varieties of evergreen trees from 1 to 8 years old. 800 of which are now salable. A fine opportunity to own your own nursery.

N. R. HANSEN REALTY CO.  
1027 Broadway Toledo, O.

FOR SALE—Established business 100 miles from any nursery competition. 32,000 population. \$5,000.00 annual plant industry. Great opportunity for a young man. Reason for selling, old age. Write for particulars. Address Box 466, care of American Nurseryman.

It is easy to inspect the land before planting to ascertain the presence of these worms. A little shoveling, hoeing or inspection at planting time will tell. It is never wise to plant in infested land, but, once done, the prescribed rule given above will be helpful.

### Tulip Bulb Aphis.

The tulip bulb aphis is generally distributed in the United States. It is a root and bulb-infesting insect, a dirty-white to grayish-white in color, with an occasional tinge of pink. There are irregular markings on the abdomen, and there are both winged and wingless individuals. It is a sucking insect. The winter is passed on bulbs—perhaps also in the soil. Infested bulbs do not develop into nor-



**Extends Transplanting Season—Reduces Losses**

**Dow**

The Dow Chemical Company  
Midland, Michigan



**TREE GUARDS**  
**PROTECT valuable young TREES from Bark-Eaters**

- This chemically impregnated fibre guard snaps on quickly.
- Lengths — 24" and 30". Expands to 3 1/4" Diameter.
- Jobbers-Dealers — write for Special Sales Proposal.

**LAMINITE PRODUCTS - Canton 5, Ohio**

## Own a SOIL TEST LABORATORY Of Your Own



**\$22.50**

express paid

### SUDBURY PORTABLE SOIL TEST LABORATORY

The most valuable piece of equipment you can own, giving you the soil information that you need for efficient production. Widely used by estates, professional growers and government field stations. Will last almost a lifetime with refills. Comes in instrument type chest. No chemistry knowledge required. Complete with instructions and helpful chart. **SEND NO MONEY.** Order C.O.D. \$22.50, plus express charges (or send \$22.50 and we pay express). Money back guarantee. Immediate delivery.

Dealers Write for Special Offer.

### SUDBURY SOIL TEST LABORATORY

Box 116

So. Sudbury, Mass.

## MYROBALAN SEED LOVELL PEACH PITS

Nation's Leading Source

Write today for quotations.



**California**  
NURSERY COMPANY  
Niles, California

## "GRO-QUICK" ELECTRIC SEED BED HEATER

**BOTTOM HEAT CAN'T BE BEAT**

For Early Plant Starting  
For High Germination  
For Fast Growth  
For Rooting Cuttings



**GET ALL THE FACTS NOW**

Send today for free new instruction sheet with plans and experience reports from users in your line of business. GRO-QUICK will substantially increase your profits.

**"GRO-QUICK"** 366 W. Huron St.  
Chicago 10, Ill.

**Send for Our Seed List.**

**A. B. C.**

**"Supreme" Quality  
SEEDS — PLANTS — BULBS  
and  
Growers' Accessories**

**AMERICAN BULB CO.**  
1335 W. Randolph St. CHICAGO 7  
31 W. 27th St. NEW YORK 1

mal plants. Green shoots that start are likely to die if infested. Any control means for thrips on gladiolus corms will be effective for aphids on tulips.

### Canna Leaf Roller.

Canna leaf roller can be controlled by the application of arsenate of lead. The dry powder can be dusted on the leaf, but the wet spray of one teaspoonful to a gallon of water is more retentive if the foliage is dry and will therefore be more effective. Either application, to be of much value, should be made before much damage has been done.

### THE BLUE BAG.

[Concluded from page 16.]

line and bait. But anybody is liable to be taken in by Min. She tells a story with a good lot of props and sound effects.

"How about the bag, Min, where did it really come from?" Emil says.

"Probably a liner from a sugar sack. I used to get a few bags now and then that way. Heck, I don't know why they made 'em blue any more than you do. Well, drop in again," she says as we headed for home.

MR. AND MRS. RANDALL H. WHITE are starting in the nursery business at R. R. 5, Noblesville, Ind.

ROBERT E. CHAPPUE has returned from the armed services and is reestablishing his business, the Tri-City Nursery, at Festus, Mo.

THE Greening Nursery Co., Monroe, Mich., has reopened its warehouse at Detroit for the fall season. This is the firm's ninety-seventh year in business.

SAMUEL WOODROW, who had been conducting a plant and landscaping business from the retail shop of Charles Cuccio, New York city, N. Y., has established his business at Sixth avenue near Thirtieth street.

SINCE his return from the armed services, Robert Witherell, Jr., has taken over the ownership and operation of Haskell Creek Nursery, Olean, N. Y. The business was formerly operated by his father, Robert Witherell, Sr., who died last fall.

IN the nursery business for the past year, Home Plantings Nursery, owned by Vincent D. Pichard, Route 2, Box 143 G, Tallahassee, Fla., has been selling nursery stock and landscaping grounds for new buildings. Mr. Pichard has applied for his nursery inspection certificate, and when it is issued he will begin sales of his own stock.

Old 'Doc' Woodruff

*Rx For the  
Perfect Setting  
for your  
finest work.*

*Plant a  
Turf-Maker  
Lawn*

Give each landscaping "gem" a setting worthy of the thought and planning you put into it. Nurserymen know the Turf-Maker formulae can be depended upon to grow fine sod, regardless of sun and soil conditions. Write us your problems. We're at your service.

**WINTER SEEDINGS ARE  
PRACTICAL  
WRITE FOR DETAILS**

**F. H. WOODRUFF & SONS, Inc.**



LAWN SEED  
DIVISION

Dallas

Milford, Conn. • Bellerose, L. I.  
Toledo • Atlanta • Sacramento



For Treating  
Cuttings  
and Seeds  
Bulbs and Tubers

Scientific Growth Stimulant

Write for Free Booklet

SCHUYLKILL CHEMICAL CO. Philadelphia 32, Pa.

## SEEDS

Collectors of Tree, Shrub and  
Wild Flower Seeds

Crude Drugs and Ornamentals

**E. C. MORAN** Stanford, Mont.



## DWARF CONIFERS.

[Continued from page 10.]

day that plant looks as good as any in our arboretum, and you could not tell that at one time the tree had been planted wrongly.

A characteristic variety of the dwarf spruce is *P. abies repens*, which often is three times as broad as it is high and almost prostrate in appearance. It is a fine plant and can be used in full sun instead of a prostrate juniper or even a Pfitzer juniper. It is not one of the really slow-growing kinds, either, but with a little bit of trimming you can easily keep it in place. Our plant is 7 or 8 years old, and is about four feet across and only about sixteen to seventeen inches high. The color is light green, and the whole plant is very attractive.

A variety similar to the preceding is *P. abies procumbens*. The only difference between the two that I can see is that the *procumbens* might grow a little faster and not even so high as the *repens*. Nevertheless, the difference, if any, is slight, and it would be of no use for a nursery to carry both varieties.

We have also a form that is flat and globe-shaped, *P. abies nidiformis*. This is one of the better known spruces and probably the one you see most frequently. I think it is the darkest green of all the dwarf spruces, and it deserves to be planted much more than is now the case, even if it is common.

*P. abies clanbrasiliana* seldom grows to more than five or six feet tall. It is rounded and globular, with stiff, upright branches which are set very closely. It was originated at Belfast, Ireland, during the eighteenth century and was introduced to England by Lord Clanbrasil. I bought my plant in the spring of 1936, and it is now about thirty inches high, a massive and good-looking plant.

We have many forms of dwarf spruces; so I have a good chance to compare them. One that is good and not too slow-growing, either, is *P. abies echinaeformis*. This is broad and pyramidal, and the color is bluish-green, especially when growth is young. Our spruce that was planted in 1936 is now five feet broad and three feet high.

Several years ago I bought some good-size dwarf spruces from an old block of neglected evergreens. I got them cheaply, in my estimation, at \$25 apiece. In the lot was a plant of *P. abies remonti*, then around 35 years old, as nearly as I could find out from old planting records. It was about three feet high at the time of transplanting. I gave it good soil, and

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today it is a beauty, about six feet tall and perfectly shaped. It is a very desirable tree, and I should not take \$200 for it now.

A diminutive form that seldom grows to more than two feet is *P. abies gregoryana*. It is compact, with stiff, upright branches thickly clothed with short, rigid needles which spread in all directions and, unlike most spruces, lie comb-shaped. It is a good one for the smaller rock

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garden where a really dwarf plant is desired, or in a situation where space is limited.

Some years ago I visited the Boyce Thompson Institute, where I saw seven or eight dwarf spruces. I brought back with me a few varieties, and in this collection one of the finest was *P. abies pygmaea*. It grows compactly and is slightly depressed globe-shaped. The yearly growth is only about two to two and one-half inches, and the plant never gets higher than two feet. This is a gem that should be in every collection. It is similar to *P. abies gregoryana*.

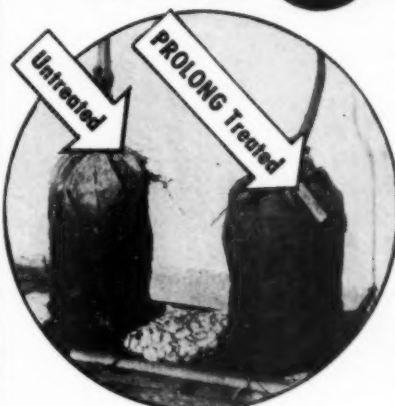
Another one of the dwarf spruces that is fairly common is *P. abies maxwellii*, which is spiny and extremely compact. It is a slow grower, adding only one and one-half to two inches a year. It is a depressed globe-shaped plant that is always easy to sell, but a number of years are necessary to grow a specimen of this variety. It is also hard to get propagating wood unless you want to cut up a whole plant for this purpose. That, of course, is true of most of the dwarf conifers.

There are certain pests to watch for on all these dwarf spruces. Red spiders are hard on the spruces and, if not caught in time, may totally ruin the plants. The second pest I have just noticed during the past two years. This is the webworm, which is also serious if you do not discover it in time. An easy method of control is to dust with a rotenone-pyrethrum dust. I make my own dust by mixing nine parts hydrated lime, one part arsenate of lead and three parts fine-mesh flowers of sulphur. This dust is also effective on Mugho pine sawflies, the greenish worms with black stripes that defoliate the Mugho pines so badly some years. Incidentally, the sawfly caterpillars spend their winters right at the bases of the trees, and the cocoons are covered with dry needles or dry leaves. Our best helpers in the eradication of these nests are field mice, who make short work of the cocoons by eating them.

Besides the hemlocks, pines and spruces, there are other types of dwarf materials. One that I did not acquire before this year is *Cupressus arizonica nana*; so it is a very small plant at present. It grows only a few inches a year, but the plant looks to me as though it were stunted, and I cannot say it is pretty. Of course, I may change my mind in a few years, when I see what it really looks like.

We even have a dwarf form of *Cedrus libani*, the cedar of Lebanon, by the name of compacta. This one has all the earmarks of the tall-

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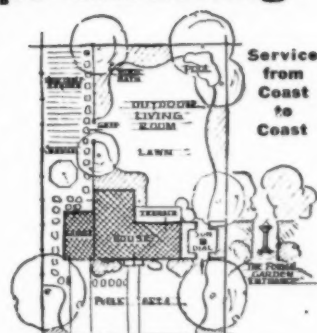
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growing cedrus, but it is a miniature. It has one drawback, however; it does not seem too hardy. It grows only a few inches each year and is a fine thing where you can grow it.

There is also a dwarf form of the Alpine fir, *Abies lasiocarpa*, and one of the balsam fir, *A. balsamea hudsonia*. I have one of the latter that is about 40 years old and only three feet across. This is not a good plant because it burns to a certain degree in our hot summers. A good tree, and one that is very rare, is the dwarf form of Douglas fir, *Pseudotsuga douglasii*. I am not familiar with this, however.

First on my list of unusual deciduous shrubs are the *stewartias*. If I am not mistaken, there is one growing wild in West Virginia, *Stewartia ovata*, or as it used to be called, *S. pentagyna*. It is a tall shrub with large cup-shaped flowers fully two and one-half inches in diameter. It starts to flower about July 10 and continues for a few weeks. The center of the flower is filled with yellow stamens, and it is an ornamental shrub. The plant is hardy as far north as Boston. We have a variety, *S. grandiflora*, with striking, slightly bigger flowers and lavender stamens.

*S. pseudocamellia* is similar to the preceding, but the flower opens more flatly and the edges of the petals are serrated and wavy. It is a strikingly beautiful shrub and is planted altogether too seldom. The *stewartias* belong to the *camellia* family, *ternstroemiaceae*, and their blooms resemble that flower. There are several other *stewartias*, for example *S. koreana*, but this one resembles the *pseudocamellia* so much you can hardly tell them apart. Then there is *S. serrata*, with serrated leaves and pronounced cup-shaped flowers. This plant is free-blooming and a strong grower. Another free-blooming variety is *S. sinensis*. Until last year I had this variety in a big pot, and it was covered with flowers from top to bottom. Usually you have to get up close to the bush really to appreciate the beauty of it, because it is not so showy as *forsythia* or *cydonia*. *S. ovata* is an American shrub, *pseudocamellia* is from Japan, *serrata* and *sinensis* are Chinese and *koreana*, as the name indicates, is from Korea.

Another species which belongs to the same family, *ternstroemiaceae*, and which resembles the *stewartia* is *Gordonia alata*, the lost tree of Georgia. I cannot leave the *camellia* family without talking about this magnificent little tree. It grows to be twenty feet high, a shapely big shrub or little tree, if you care to

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trim it in tree shape. It was discovered by John Bartram in 1765 and introduced to England in 1774, but no one has seen this shrub in its wild state since 1790. That is why it is called the lost tree of Georgia.

A group of shrubs which, in my opinion, is not planted enough and deserves a place, at least in the larger gardens, is the sorbarias. They sometimes are called the false spiraeas, but the resemblance is rather remote. If you look at the foliage, these shrubs have pinnate leaves and massive terminal panicles of white or slightly cream-colored flowers. They require a deep rich loam with plenty of moisture and will stand shade rather well. They are suitable for a wild garden or at the edge of a lake or stream.

One of the most frequently seen of the sorbarias is, I think, arborea. It comes from western China and is a bold and demanding shrub, often fifteen feet high and almost as broad. From the Himalayan mountains we have *S. aitchisoni* with even bigger flower trusses and equal in size to *S. arborea*. From Sakhalin comes *S. sorbifolia*, the midget in the group. It grows only three to five feet high, but spreads rapidly from underground runners, and is a good plant for a low border or in a wild garden. The sorbarias mentioned so far are

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all hardy, but one that is a little tenderer comes from the Himalaya mountains. This is *S. lindleyana*, or, as it is sometimes called, *tomentosa*. It grows well with me, but occasionally it is winterkilled, if I forget to mulch it along with the crape myrtle, southern magnolias and English hollies. Another form, *S. stipitata* from northern Japan, I have had only a few years; so I do not know how it will behave.

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It has been found that dolomitic limestone may or may not be beneficial, depending on the species grown as well as on the soil. Tests show it usually improves the growth of hard maple, white elm and cottonwood, but may depress the growth of pines, spruce and yellow birch, species whose natural habitat is acid soil.

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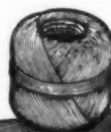
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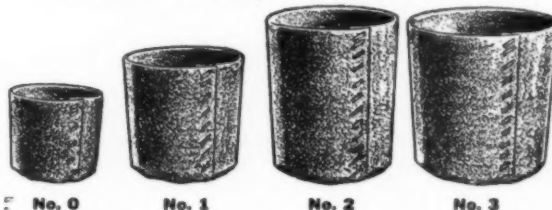
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Diam. Top	5 ins.	6 ins.	7 ins.	8 ins.
Bottom Diam.	4½ ins.	5½ ins.	6½ ins.	7½ ins.
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Approx. Weight Per 100	35 lbs.	52 lbs.	78 lbs.	88 lbs.
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### CATALOGS RECEIVED.

Semmes Nurseries, Semmes, Ala.—Wholesale catalog of azaleas, camellias, magnolias, broad-leaved evergreens, conifers and deciduous and miscellaneous plants, fully illustrated, partly in color, 52 pages, 4x9¼ inches.

Willis Nursery Co., Ottawa, Kan.—Wholesale price list of shrubs, shade trees, evergreens, roses, perennials, bulbs and small fruits, 20 pages and cover, 5½x8¾ inches.

Brown Deer Nurseries, Brown Deer, Wis.—Wholesale price list of evergreens, including lining-out stock, 4 pages, mimeographed, 8½x11 inches.

New Augusta Nursery, New Augusta, Ind.—Wholesale price lists of perennials and of shrubs, deciduous trees and evergreens, together, 5 mimeographed pages, 8½x11 inches.

Thomas B. Meehan Co., Dresher, Pa.—Wholesale price list of ornamental trees and shrubs, 4 pages, 5½x13½ inches.

Hess' Nurseries, Mountain View, N. J.—Wholesale price list of evergreens, 2 pages, 5½x9 inches.

National Nurseries, Biloxi, Miss.—Wholesale price list of camellias and azaleas, 2 pages, 4x7½ inches.

Sunbeam Farm, Rocky River, O.—Wholesale price list of perennials, annuals and cut flowers, 2 pages, 4x7 inches.

E. D. Robinson Sales Agency, Wallingford, Conn.—Wholesale price list of evergreens, deciduous ornamental trees and shrubs, perennials and lining-out stock, 44 pages and cover, 4x8¾ inches.

Berryhill Nursery Co., Springfield, O.—Wholesale price list of evergreens, deciduous

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ous shade and ornamental trees and shrubs, 16 pages and cover, 4 1/2 x 8 1/4 inches.

D. Hill Nursery Co., Dundee, Ill.—Wholesale catalog of evergreens, illustrated, 24 pages and cover, 6 1/8 x 9 1/4 inches.

C. F. Wassenberg, Van Wert, O.—Wholesale price list of irises, poppies and peonies, 28 pages, illustrated, 5 x 8 3/4 inches.

The Joseph F. Martin Co., Painesville, O.—Wholesale perennial price list, 15 pages, 6 x 9 inches.

Weller Nurseries Co., Inc., Holland, Mich.—Wholesale price list of herbaceous perennials, rock and alpine plants and evergreens, 19 pages, illustrated, 6 x 9 inches.

Shoreway Nursery, Glassboro, N. J.—Wholesale price list of rock plants and perennials, last complete catalog, 15 pages, 4 x 9 inches.

Milton Nursery Co., Milton, Ore.—Wholesale trade surplus list of shade and ornamental flowering trees, 3 pages, 4 x 9 inches.

Paul J. Howard's California Flowerland, Los Angeles, Cal.—Retail catalog of bulbs, including daffodil, tulip, hyacinth and iris, 10 pages, illustrated, partly in color, 8 3/4 x 11 1/4 inches.

Stern's Nurseries, Geneva, N. Y.—Retail catalog of fruit trees and small fruits, lilacs, evergreens and bulbs, 32 pages and cover, illustrated, 6 x 9 inches.

L. N. Roberson Co., Seattle, Wash.—Retail price list of rock plants, camellias, rhododendrons and azaleas, conifers and perennials, 24 pages, illustrated, 4 x 9 inches.

Blackwell Nurseries, Semmes, Ala.—Post-card listing of stock now offered for shipment in large quantities.

McDonnell Nursery, Oakland, Cal.—Retail catalog of bulbs, including daffodil, iris, tulip, hyacinth and anemone, and perennials, ground covers and lawn grass seed, abundantly illustrated in color, 16 pages, 7 3/4 x 10 3/8 inches.

Malmo Nurseries, Seattle, Wash.—Retail catalog of narcissus, tulip and other spring bulbs and bearing-size fruit trees, 16 pages, 8 x 11 inches.

Magnolia Gardens and Nurseries, Charleston, S. C.—Retail catalog of rare camellias, 25 pages and cover, 4 3/4 x 8 1/4 inches.

Harrison Bros. Nurseries, Berlin, Md.—Price list of evergreen, shade, flowering, nut and fruit trees and small fruits, 4 pages, 8 3/8 x 10 7/8 inches.

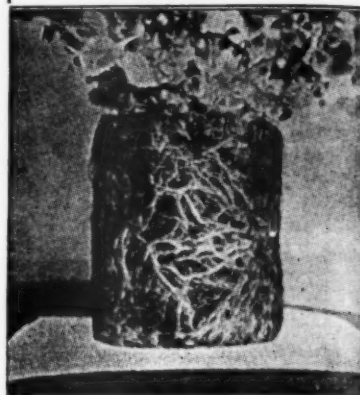
DANA HANBY is starting a nursery business on fourteen acres of land at League City, Tex.

"WATCH US GROW" is the motto of the Groveside Gardens, Downers Grove, Ill., which E. C. Freed has owned for the past year. Perennials and general nursery stock are grown on five acres of land.

E. M. HILDEBRAND, for a time with the Food Machinery Corp., at Dunedin, Fla., has returned to college work and is now in the biology department of Texas Agricultural & Mechanical College, College Station, Tex.

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2 1/2 to 3 ft. xxx B&B	\$2.75	\$25.00	\$225.00	10x10 ins. xx B&B	\$ 1.50	\$ 12.50	\$100.00
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3 1/2 to 4 ft. xxx B&B	5.25	50.00	475.00	<b>SCOTCH PINE</b>			
4 to 5 ft. xxx B&B	6.25	60.00	575.00	2 to 3 ft. xx B&B	1.70	16.00	150.00
<b>PFITZER JUNIPER</b>				3 to 4 ft. xxx B&B	4.00	37.50	350.00
15 to 18 ins. xx B&B	1.70	16.00	150.00	4 to 5 ft. xxx B&B	5.50	52.50	500.00
18 to 24 ins. xx B&B	2.00	19.00	180.00	5 to 6 ft. xxx B&B	6.75	65.00	.....
1 1/2 to 2 ft. xxx B&B	3.50	32.50	300.00	<b>DOUGLAS FIR</b>			
2 to 2 1/2 ft. xxx B&B	4.25	40.00	375.00	18 to 24 ins. xx B&B	1.45	13.50	125.00
2 1/2 to 3 ft. xxx B&B	5.00	47.50	450.00	2 to 2 1/2 ft. xx B&B	1.70	16.00	150.00
<b>GOLDEN PFITZER JUNIPER</b>				3 to 3 1/2 ft. xxx B&B	4.00	37.50	350.00
2 1/2 to 3 ft. xxx B&B	4.50	42.50	400.00	3 1/2 to 4 ft. xxx B&B	4.75	45.00	425.00
3 1/2 to 4 ft. xxx B&B	6.00	57.50	550.00	<b>UPRIGHT JAPANESE YEW</b>			
<b>VASE SHAPE PROSTRATE JUNIPER</b>				1 1/2 to 2 ft. xxx B&B	6.50	62.50	600.00
15 to 18 ins. xx B&B	1.45	13.50	125.00	2 to 2 1/2 ft. xxx B&B	9.50	92.50	900.00
<b>ANDORRA JUNIPER</b>				3 to 3 1/2 ft. xxx B&B	.....	.....	.....
12 to 15 ins. xx B&B	1.40	13.00	120.00	Extra-heavy	21.00	200.00	.....
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1 1/2 to 2 ft. xxx B&B	3.50	32.50	300.00	Extra-heavy	23.50	225.00	.....
2 to 2 1/2 ft. xxx B&B	4.50	42.50	400.00	4 1/2 to 5 ft. xxx B&B	.....	.....	.....
2 1/2 to 3 ft. xxx B&B	5.00	47.50	450.00	Extra-heavy	45.00	425.00	.....
<b>MEYER JUNIPER</b>				<b>SPREADING JAPANESE YEW</b>			
15 to 18 ins. xxx B&B	.....	.....	.....	12 to 15 ins. xx B&B	1.65	15.50	145.00
(Spring only)	3.50	32.50	300.00	12 to 15 ins. xxx B&B	3.50	32.50	300.00
1 1/2 to 2 ft. xxx B&B	.....	.....	.....	15 to 18 ins. xxx B&B	4.25	40.00	375.00
(Spring only)	4.50	42.50	400.00	2 to 2 1/2 ft. xxx B&B	8.75	85.00	.....
<b>HILLBUSH JUNIPER—Dark green</b>				<b>COMPACT SPREADING YEW</b>			
15 to 18 ins. xx B&B	1.55	14.50	135.00	15x15 ins. xxx B&B	4.50	42.50	400.00
15 to 18 ins. xxx B&B	3.00	27.50	250.00	18x18 ins. xxx B&B	5.50	52.50	500.00
1 1/2 to 2 ft. xxx B&B	3.50	32.50	300.00	<b>BROWN'S YEW</b>			
<b>BURK JUNIPER</b>				10 to 12 ins. xx B&B	1.65	15.50	145.00
3 to 4 ft. xxx B&B	5.25	50.00	475.00	<b>HATFIELD YEW</b>			
<b>CANAERT JUNIPER</b>				15 to 18 ins. xxx B&B	4.00	37.50	350.00
2 1/2 to 3 ft. xxx B&B	4.75	45.00	425.00	1 1/2 to 2 ft. xxx B&B	4.50	42.50	400.00
3 to 3 1/2 ft. xxx B&B	5.25	50.00	475.00	<b>INTERMEDIA YEW</b>			
3 1/2 to 4 ft. xxx B&B	6.25	60.00	575.00	1 1/2 to 2 ft. xxx B&B	9.00	85.00	.....
4 to 4 1/2 ft. xxx B&B	7.25	70.00	675.00	2 to 2 1/2 ft. xxx B&B	10.50	100.00	.....
5 to 5 1/2 ft. xxx B&B	10.50	100.00	.....	<b>DWARF JAPANESE YEW</b>			
5 1/2 to 6 ft. xxx B&B	12.50	120.00	.....	10 to 12 ins. xxx B&B	3.25	30.00	275.00
<b>HILLSPIRE JUNIPER</b>				12 to 15 ins. xxx B&B	3.50	32.50	300.00
3 to 3 1/2 ft. xxx B&B	3.50	32.50	300.00	15 to 18 ins. xxx B&B	4.75	45.00	.....
<b>SILVER JUNIPER</b>				1 1/2 to 2 ft. xxx B&B	5.75	55.00	.....
5 to 6 ft. xxx B&B	12.50	120.00	.....	<b>AMERICAN ARBORVITAE</b>			
5 to 6 ft. xxx B&B	25.00	.....	.....	4 to 5 ft. xxx B&B	4.50	42.50	400.00
6 to 7 ft. xxx B&B	30.00	.....	.....	5 to 6 ft. xxx B&B	5.50	52.50	500.00
7 to 8 ft. xxx B&B	35.00	.....	.....	<b>PYRAMIDAL ARBORVITAE</b>			
<b>HILL DUNDEE JUNIPER</b>				3 to 4 ft. xxx B&B	4.25	40.00	375.00
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5 to 5 1/2 ft. xxx B&B	12.50	120.00	.....	5 to 6 ft. xxx B&B	7.50	72.50	700.00
5 1/2 to 6 ft. xxx B&B	15.50	150.00	.....	<b>WOODWARD ARBORVITAE</b>			
<b>SCHOTT JUNIPER</b>				12x12 ins. xxx B&B	2.00	17.50	150.00
3 1/2 to 4 ft. xxx B&B	6.00	57.50	.....	15x15 ins. xxx B&B	2.50	22.50	200.00
4 to 4 1/2 ft. xxx B&B	6.75	65.00	.....	<b>HEMLOCK</b>			
<b>NORWAY SPRUCE</b>				15 to 18 ins. xx B&B	1.45	13.50	125.00
2 to 3 ft. xxx B&B	2.25	20.00	175.00	18 to 24 ins. xx B&B	1.70	16.00	150.00
3 to 4 ft. xxx B&B	3.25	30.00	275.00	2 to 2 1/2 ft. xx B&B	2.00	19.00	180.00
4 to 5 ft. xxx B&B	5.50	52.50	.....	2 to 3 ft. xxx B&B	4.50	42.50	400.00
5 to 6 ft. xxx B&B	7.50	72.50	.....				
<b>BLACK HILLS SPRUCE</b>							
18 to 24 ins. xx B&B	1.70	16.00	150.00				

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